CONSTRUCTION NEWS

PERSONALS, ENGINEERING SOCIETIES, ENGINEERING SCHOOLS, READERS' WANTS, INDUSTRIAL NOTES, PUBLICATIONS.

Supplement to ENGINEERING NEWS. New York, September 8, 1904.

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PERSONAL.

Mr. W. M. MacPhail has been appointed Roadway Engineer of the Civic Works Department of Toronto, Ont.

Mr. Frank S. Story has been appointed Assistant Engineer of the Department of Docks and Ferries of New York City.

Mr. Albert E. Thomas, a civil engineer in New York City, and Miss Annie F. Smith of New Bedford, Mass., were married in Norwich, Conn., Aug. 29.

Mr. Augustus Brandegee has been elected President of the New London Gas & Electric Co., of New London, Conn., to succeed the late Robert Coit.

Mr. A. W. Conner has been appointed Assistant Professor of Civil Engineering in the Missouri School of Mines. Mr. Conner is a graduate of Purdue University.

Mr. E. C. Maxwell has resigned his position in the estimating department of the Cambria Steel Co. to accept a similar position with The Brown-Ketcham Iron Works, of Indianapolis, Ind.

Mr. John Hesketh, Electrical Engineer of the Postmaster-General's Department, Brisbane, Queensland, Australia, is at present in the United States and will visit the St. Louis Exposition.

Mr. B. L. Crosby has been appointed Principal Assistant Engineer of the Northern Pacific Ry., with headquarters at Tacoma, Wash., and will have charge of Construction Department matters on the Western Divisions.

Mr. William E. Conklin, formerly Assistant Engineer of the Schenectady Street Railway Co., of Schenectady, N. Y., has been appointed assistant to H. A. Belden, General Manager of the Manila electric traction system.

Mr. Alexander Zelewsky, Chief Engineer of Ganz & Co. of Budapest, Hungary, is in this country. He will go to St. Louis, and after visiting the World's Fair will pay a visit to some of the Far Western transmission systems.

Mr. Geo. C. Mason, who for the past twelve years has been on the Engineering Faculty of New York University, has resigned and has opened an office as Consulting Engineer in the Chamber of Commerce Building, Portland, Ore.

Mr. Newton Welch has been appointed Superintendent of Bridges and Buildings on the Chicago, Cincinnati & Louisville R. R., to succeed Mr. J. J. Delaney. Mr. Welch was formerly connected with the same department on the Queen & Crescent.

Mr. J. W. Oplinger, Mechanical Inspector of the Atlantic Coast Line at Wilmington, N. C., has been appointed Superintendent of Motive Power of the second division of that system, with headquarters at Savannah, Ga., succeeding, Mr. W. H. Young, resigned.

Mr. George J. Lyon has been secured as a member of the faculty in the Civil Engineering Department of Colorado College. Mr. Lyon is a graduate of the science department of the University of Nebraska, and of Columbia University, securing the degree of C. E. from the latter institution.

Count de Benouville, a French Naval Constructor, and T. de Berc, a mining engineer, are in this country, and while here will visit the Louisiana Purchase Exposition and will make a tour of the West. M. de Berc was appointed by the French Government to inspect American mines and mining methods.

Mr. E. R. Carichoff has opened an office at 20 Broad St., New York, for practice as a General Consulting Engineer. A specialty will be made of electric elevators and motor control, in the design of which apparatus Mr. Carichoff has had a long experience with the Sprague Electric Co., Otis Elevator Co., and General Electric Co. Examinations of inventions and patents will be made also.

Reports have been received at Washington from all the parties of the U. S. Geological Survey that are at work this season in Alaska. Messrs. F. E. and C. W. Wright were assigned to geologic work in southeastern Alaska. They have completed the reconnaissance from Juneau to Sitka and have begun an examination of the gold deposits near Sitka and of the coals of Admiralty Island. Later in the season they will work southward along the mainland and toward the end will visit some of the copper mines in the Ketchikan District. Topographic and geologic work covering an area of about 700 square miles was done during June in the placer district about Cook Inlet. Mr. F. H. Moffit was the geologist of the party and Mr. E. G. Hamilton was topographer. Mr. R. W. Stone spent about three weeks in June in an examination of the Kachemak coal fields, and toward the end of the month joined Dr. G. C. Martin, who had been making a re-examination of the Enochkin oil field. Together they will make an examination of the mineral resources of Alaska Peninsula. Mr. T. G. Gerdine, with his assistants, Mr. W. R. Hill and Mr. R. B. Oliver, in June began the survey on a large scale of the more important part of the mining district near Nome. Mr. Gerdine's party, owing to the treeless character of the country, were able to use wagons for transportation purposes. Mr. Arthur J. Collier left Nome early in July to study the coal fields near Cape Lisburne, which lie on the Polar Ocean, north of the Arctic Circle. He will be assisted by Mr. Chester Washburn. A party of 12 men under the direction of Mr. D. C. Witherspoon left Seattle May 28 for work in the Yukon-Tanana Area. The topograhic corps of the party was to operate under personal supervision of Mr. Witherspoon, who was assisted in his work by Mr. G. Thomas Ford. Mr. L. M. Prindle was in charge of the geologic party, and he was assisted by Mr. F. L. Hess. Mr. C. W. Purington, assisted by Mr. Sidney Paige, is studying the Alaskan methods of placer mining. It is expected that the results of this study will determine the best methods of economically exploiting the gold deposits of this section of the country. Mr. Alfred H. Brooks, geologist in charge of the division of Alaskan mineral resources, left Washington early in August, expecting to visit the several survey parties at Cook Inlet, Nome and in southeastern Alaska before returning to Washington in October.

OBITUARY.

Reuben Shirriffs, a civil engineer, committed suicide by means of illuminating gas in Washington, D. C., Aug. 31. He was 52 years old.

Edward A. Graves, a civil engineer of Streator, Ill., died at his home in that city Aug. 29. He had been employed for many years with the C. W. & V. Coal Co., and had also at various times been City Engineer of Streator.

Francis Conklin, Superintendent of Buildings of Brooklyn, N. Y., under Mayor Van Wyck, and Superintendent of Carnegie Libraries in Brooklyn under the present administration, died at his home in that city Aug. 29, aged 63 years.

Alexander Pollock, M. Am. Soc. M. E., died at his home in Glen Ridge, N. J., Sept. 3. Mr. Pollock was at the head of the staff of engineers which Captain Ericsson had with him in the construction of the Monitor, and served with Ericsson until the close of the war. Mr. Pollock was also a member of the Society of Naval Architects and Marine Engineers. He was 66 years old.

Clark Caryl Haskins, well known in the electrical world as an inventor and writer, died at his home in Chicago, Ill., Sept. 3. In 1841 Mr. Haskins is said to have sent the first telegraphic message that ever passed between two countries, sending it from Buffalo to Queenston, Canada. His most notable achievement was evolving the multiple switchboard, now used for telephones all over the world, which make it possible to operate any number of lines from the same exchange. He was 77 years old.

Emil Mahlo, topographical draftsman of the Navy Department, and a well-known landscape engineer, died suddenly at his home in Wiehle, Va., Aug. 31, aged 53 years. He was born in Dresden, was graduated from the polytechnic school of that city, and came to the United States to lay out Fairmount Park, Philadelphia. He was afterward attached to the naval hydrographic office in Washington, assisted in the survey of boundary lines, and for several years was park engineer of Louisville, Ky. He returned to the Navy Department in 1890.

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ENGINEERING SOCIETIES.

COMING MEETINGS.

SOCIETY OF CHEMICAL INDUSTRY.
Sept. 7 to 12, 1904. Annual meeting at New York, N. Y. Gen'l Secy., C. G. Creswell, 9 Bridge St., Westminster, London. Secy. New York Section, T. J. Parker, 25 Broad St., New York.
INTERNATIONAL ELECTRICAL CONGRESS.
Sept. 12 to 16. At St. Louis, Mo. Secy., A. E. Kennelly, Harvard University, Cambridge, Mass.
RAILWAY SIGNAL ASSOCIATION.
Sept. 13, 1904. Quarterly meeting at Chicago, Ill. (Great Northern Hotel). Secy., B. B. Adams, 83 Fulton St., New York.
ROADMASTERS' AND MAINTENANCE-OF-WAY ASSOCIATION.
Sept. 13, 14, 15. Annual meeting at St. Louis, Mo. Secy., C. E. Jones, Beardstown, Ill.
NEW ENGLAND WATER-WORKS ASSOCIATION.
Sept. 14, 15, 16, 1904. Annual convention at Holyoke, Mass. Secy., Willard Kent, Narragansett Pier, R. I.
AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.
INSTITUTION OF ELECTRICAL ENGINEERS. (Great Britain.)
Sept. 14, 1904. Joint convention at St. Louis, Mo. Secy. Am. Inst. Elec. E., R. W. Pope, 95 Liberty St., New York.
AMERICAN INSTITUTE OF MINING ENGINEERS.
Sept. 14 to 21. Annual convention at Duluth, Minn., and Houghton, Mich. Secy., R. W. Raymond, 99 John St., New York.
AMERICAN ELECTRO-CHEMICAL SOCIETY.
Sept. 16. Joint meeting with the Deutsche Bunsen Gesellschaft and the Faraday Society, at St. Louis, Mo. Secy., S. S. Sadtler, 39 S. Tenth St., Philadelphia.
INTERNATIONAL ENGINEERING CONGRESS.
Oct. 3 to 8, 1904. Held at St. Louis, Mo., under the auspices of the American Society of Civil Engineers. Secy., Chas. Warren Hunt, 220 W. 57th St., New York.
AMERICAN BOILER MANUFACTURERS' ASSOCIATION.
Oct. 4, 5, 6, 1904. Annual convention at St. Louis, Mo. Secy., J. D. Farasey, Forest St. and Erie Ry., Cleveland, O.
AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.
Oct. 4, 5, 6, 1904. Annual meeting at St. Louis, Mo. Secy., G. W. Tillson, Municipal Building, Brooklyn, N. Y.
AMERICAN STREET RAILWAY ASSOCIATION.
AMERICAN RAILWAY MECHANICAL AND ELECTRICAL ASSOCIATION.
STREET RAILWAY ACCOUNTANTS' ASSOCIATION.
Oct. 10 to 15, 1904. Annual meetings at St. Louis, Mo.
RAILWAY SIGNAL ASSOCIATION.
Oct. 11, St. Louis, Mo. Secy., B. B. Adams, 83 Fulton St., New York.
ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 18, 19, 20. Annual meeting at Chicago. Secy., S. F. Patterson, Concord, N. H.
AMERICAN GAS LIGHT ASSOCIATION.
Oct. 19, 20, 21, 1904. Annual meeting at Washington, D. C. Secy., A. E. Forstall, 58 William St., New York, N. Y.
IRON AND STEEL INSTITUTE (Great Britain).
Oct. 24 to 26, 1904. Annual meeting at New York City. Secy., B. H. Brough, 28 Victoria St., London, S. W.
AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
Dec. 6, 1904. Annual meeting at New York City. Secy., F. R. Hutton, 12 West 31st St., New York.
AMERICAN INSTITUTE OF ARCHITECTS.
Dec. 15 to 17, 1904. Annual meeting at Washington, D. C. Secy., Glenn Brown, Washington, D. C.

PACIFIC NORTHWEST SOCIETY OF ENGINEERS.—At the meeting of Sept. 3, 1904, at the Chamber of Commerce, Seattle, Wash., two papers were presented: "The Equipment of A Modern Drafting Room," by Mr. W. N. Chase, of Seattle; and "What the Franchise Corporations are Doing and their Obligation to the Public," by Mr. W. S. Wheeler. These papers were originally scheduled for the meeting of Aug. 6, but were postponed. Secy., Milnor Roberts, Seattle, Wash.

FOREIGN ELECTRICAL ENGINEERS.—A large number of members of the Associazione Elettrotecnica Italiana arrived in New York about two weeks ago. Since then they have been entertained by a local committee headed by Mr. J. W. Lieb of the New York Edison Co. Later, most of the party went to Boston, and there met the party of the British Institution of Electrical Engineers which arrived there on Sept. 1. The combined party came to New York two days later and was taken in hand by an entertainment committee of the American Institute of Electrical Engineers, who gave them a steamer trip on the Hudson River on Sunday Sept. 4, a ride through the new Rapid Transit Subway and a visit to several power stations on Sept. 5, and a banquet on the evening of Sept. 5. The party left on Sept. 6 for St. Louis, by a long route over a number of large cities and points of interest. They will arrive in St. Louis in time for the International Electrical Congress, which opens Monday, Sept. 12.

FOREIGN CIVIL ENGINEERS.—A party of sixteen members of the French Society of Civil Engineers arrived in New York on Aug. 27. The party was received at the dock by a committee of the American Society of Civil Engineers, and later spent two days in seeing New York City. A trip through part of the new rapid transit subway and a visit to the New York Edison Co.'s main power station formed part of the program. The party then left on a tour through the country, going west by the way of Niagara Falls.

The party of the British Institution of Civil Engineers will arrive in New York about the middle of the month. The American Society of Civil Engineers will be in charge of their entertainment in New York City. The program prepared for this part of the visit comprises, a reception at the Society's house, 220 W. 57th St., on Tuesday, Sept. 13; excursions to Croton Dam and around Manhattan Island on Sept. 14; a trip to West Point on Sept. 15; visits to power houses and shops in and around New York City, on Sept. 16; and a banquet at Delmonico's on the evening of Sept. 16. From New York the party will go to Montreal, thence to Chicago, and thence to St. Louis.

ENGINEERING SCHOOLS.

WINONA TECHNICAL INSTITUTE.—This school, located at Indianapolis, Ind., will open its first term September 21. The school is to be a trade school to provide youths an opportunity to learn a trade. Lithographing, painting and interior decoration, carpentry, brick laying, electric wiring, mechanical drawing, are among the trades in which instruction will begin. Each department will have a superintendent who will combine practical experience with theoretical knowledge.

All the trades named will be taught from the opening of the school in the eleven buildings equipped for the purpose. Much attention will be given to the teaching of brick laying, and the mixing of mortar and cement. Prof. Stanley Coulter, formerly of Purdue University, will be Dean of the institute.

CIVIL SERVICE EXAMINATIONS FOR TECHNICAL POSITIONS.

AID AND DECK OFFICERS.—U. S. Civil Service Commission will hold an examination Sept. 14 at various places throughout the country for the position of Aid and Deck Officer in the Coast and Geodetic Survey. The age limits are 18 to 25 years. Further information may be obtained by applying to Civil Service Commission, Washington, D. C., for Manual of Examinations and for application blank 1312. Aids are appointed at a salary of $720 per year, and deck officers are appointed at from $720 to $900 per year.

The examination will consist of the subjects mentioned below, weighted as indicated.

Subjects.	Weights.
1. Mathematics: Including geometry (plane and solid), algebra, trigonometry and the elements of calculus	15
2. Practical computations: Involving the use of logarithmic tables	15
3. Astronomy: Elementary questions in spherical and general astronomy, with special reference to determination of latitude, longitude and azimuth, and use of field instruments	10
4. Physics: Elementary questions in optics, magnetism, etc.	10
5. Surveying: Elementary questions in plane and geodetic surveying, and use of field instruments	10
6. Modern languages: Competitors may select one of the following: French, German, Spanish, Italian. Extracts of about 100 words are given for translation into English	10
7. Drawing and descriptive geometry: A short test in topographic drawing and lettering is given with elementary questions on the principles of projection	10
8. Educational training and experience (rated on Application Form)	20
Total	100

COMPUTER.—U. S. Civil Service Commission will hold an examination Oct. 19 at various places throughout the country for the position of Computer in the Coast and Geodetic Survey. The age limit is 20 years or over. The salary varies from $1,000 to $2,000 per year.

The examination for Computer consists of two subjects, which are to be given equal weights, namely: Pure Mathematics, including geometry (plane and solid), algebra, trigonometry (plane and spherical), and calculus, all as covered in the higher class text-books. Practical Computations, questions involving elementary mathematical knowledge and designed principally to test ability to use tables of logarithms and to make calculations quickly and correctly. Further information may be obtained by applying to Civil Service Commission, Washington, D. C.

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close Sept.	Work.	Place.	On file.	See issue.
*8	Drain	Hackensack, N. J.	S. & B. S.	8-25
*8	Lock gates, etc.	Pittsburg, Pa.	S.	8-11
10	Dredging	New York, N. Y.	S.	9- 8
10	Store house	Norfolk, Va.	S.	8-18
*13	Crib removal	Cleveland, O.	P., S. & B. S.	8-18
*15	Irrigation canal	Montrose, Colo.	P. & S.	8- 4
17	Electric capstans	Wash., D. C.	S.	9- 1
17	Underground cables	Wash., D. C.	S.	9- 1
17	Concrete drain	Wash., D. C.	S.	9- 1
17	Road	Eulalia, Pa.	S. & B. S.	9- 1
17	Road	Sweden, Pa.	S. & B. S.	9- 1
*22	Telephone line	Montrose, Colo.	S.	8-18
24	Frame dwellings	N. Orleans, La.	S.	9- 1
24	Steel work	Washington, D. C.	S.	9- 8
26	Roads	Cooper, Pa.	S. & B. S.	9- 1
27	Roads	Erie, Pa.	S. & B. S.	9- 8
Oct.				
*5	Gunnison tunnel	Montrose, Colo.	P. & S.	8- 4
15	Dry-dock	Washington, D. C.	S.	9- 1
15	Towboat	Cuba	S.	8-18
Dec.				
*1	Bridge	Manila, P. I.	P., S. & B. S.	7-28

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Sept. 12. Light plant, Chicago, Ill. .... Sept. 8
Sept. 12. Electrical plant, Scranton, Pa. .... Sept. 8
Sept. 15. Electric light plant, Searcy, Ark. .... Aug. 18
Sept. 23. Motors, etc., Dayton, O. .... Sept. 8
Sept. 26. Power franchise, Suisun, Cal. .... Aug. 25
Oct. 4. Street lighting, etc., Tamaqua, Pa. .... Sept. 8

BRIDGES.

Sept. 8. Bridges, Towson, Md. .... Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 1.
Sept. 12. Bridge, Idaho City, Idaho .... Aug. 25
Oct. 12. Bridge superstructure, Chicago, Ill. .... Aug. 18
Advertised, Eng. News, Aug. 18.
Sept. 12. Bridge plans, etc., Belleville, Ont. .... Sept. 1
Sept. 12. Steel bridge, Wilkesbarre, Pa. .... Sept. 1
Sept. 12. Bridge, Passaic, N. J. .... Sept. 8
Sept. 13. Bridge, etc., Peoria, Ill. .... Sept. 1
Sept. 13. Iron bridge, Oakland, Md. .... Sept. 1
Sept. 14. Bridges, Columbus, O. .... Sept. 1
Sept. 14. Bridge, Moscow, Idaho .... Sept. 8
Sept. 14. Bridge, steel, Salem, N. J. .... Sept. 8
Advertised, Eng. News, Sept. 8.
Sept. 15. Bridge, Boston, Mass. .... Sept. 8
Sept. 17. Bridge, steel, Richwood, W. Va. .... Sept. 8
Sept. 19. Steel bridge, East Greenville, Pa. .... Sept. 1
Sept. 20. Stone and iron bridge, Crown Point, Ind. .... Aug. 25
Sept. 20. Bridge, Harrisburg, Pa. .... Sept. 8
Sept. 20. Bridge, Nebraska City, Neb. .... Sept. 8
Sept. 21. Bridges, Cleveland, O. .... Sept. 8
Sept. 26. Bridges, Fargo, N. Dak. .... Sept. 8
Sept. 27. Bridges, Indianapolis, Ind. .... Sept. 8
Oct. 4. Bridge, Conconully, Wash. .... Sept. 8
Dec. 1. Bridge superstructure, Manila, P. I. .... July 28
Advertised, Eng. News, July 28 to Dec. 1.

BUILDINGS.

Sept. 8. Brick school, Monterey, Ind. .... Sept. 1
Sept. 8. Court house, Minden, La. .... Aug. 11
Sept. 8. Steam heating, Norwich, Conn. .... Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Sept. 9. Capitol repairs, Des Moines, Ia. .... Aug. 25
Sept. 9. School work, Chicago, Ill. .... Sept. 8
Sept. 10. School, Springfield, Mass. .... Sept. 8
Sept. 10. Public school, Greenville, Miss. .... Aug. 25
Sept. 10. High school, Missoula, Mont. .... Jun. 30
Sept. 10. Hotel, Little Rock, Ark. .... Sept. 1
Sept. 12. Post office, Kankakee, Ill. .... Aug. 11
Sept. 12. Post office, Zanesville, O. .... Aug. 18
Advertised, Eng. News, Aug. 18 to Sept. 1.
Sept. 12. School repairs, New York, N. Y. .... Sept. 8
Sept. 12. Building, Ottawa, Ont. .... Sept. 8
Sept. 12. Sub-bids; buildings, Washington, D. C. .... Sept. 8
Sept. 13. City hall, Taylor, Tex. .... Sept. 8
Sept. 13. Terra cotta work, Washington, D. C. .... Sept. 8
Sept. 13. School, Lexington, Miss. .... Sept. 1
Sept. 13. Library, Marysville, O. .... Sept. 1
Sept. 13. Plumbing, etc., San Jose, Cal. .... Sept. 1
Sept. 14. School, Chicago, Ill. .... Sept. 1
Sept. 14. Post office, Laramie, Wyo. .... Aug. 4
Sept. 15. Post office, Grand Haven, Mich. .... Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Sept. 15. Hotel, Montgomery, Ala. .... Sept. 1
Sept. 15. School, Little Rock, Ark. .... Sept. 1
Sept. 15. Armory repairs, New York, N. Y. .... Sept. 8
Sept. 15. Court house, Bellaire, Mich. .... Sept. 8
Sept. 15. Building, Columbus, O. .... Sept. 8
Sept. 15. Hospital, Annapolis, Md. .... Sept. 8
Sept. 16. Dock buildings, New York, N. Y. .... Sept. 8
Sept. 16. Market house, Paducah, Ky. .... Sept. 8
Sept. 16. Post office, Marblehead, Mass. .... Aug. 18
Sept. 17. Schools, etc., Oakland, Cal. .... July 28
Sept. 17. Steam heating, Ft. Leavenworth, Kan. .... Sept. 8
Sept. 19. School work, New York, N. Y. .... Sept. 8
Sept. 19. Brick buildings, Ft. Assinniboine, Mont. .... Sept. 8
Advertised, Eng. News, Sept. 8 and 15.
Sept. 19. Wiring system, Greenville, Tenn. .... Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 1.
Sept. 20. Out-building, Washington, D. C. .... Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 1.
Sept. 20. Library, Cincinnati, O. .... Sept. 1
Sept. 21. Electric wiring, Nashville, Tenn. .... Sept. 1
Advertised, Eng. News, Sept. 1 and 8.
Sept. 21. Post exchange, Ft. Robinson, Neb. .... Sept. 8
Sept. 21. Jail, Sutton, W. Va. .... Sept. 8
Sept. 22. Library work, New York, N. Y. .... Aug. 18
Sept. 23. Library, Yankton, S. Dak. .... Sept. 8
Sept. 24. Brick buildings, Alexandria, La. .... Sept. 8
Sept. 24. Frame dwellings, New Orleans, La. .... Sept. 1
Sept. 26. Brick addition, Los Angeles, Cal. .... Sept. 8
Sept. 26. Buildings, Jackson, Miss. .... Sept. 8
Sept. 26. Stable, etc., Delaware City, Del. .... Sept. 8
Advertised, Eng. News, Sept. 8 and 16.
Sept. 27. Court house, Wynne, Ark. .... Sept. 8
Sept. 27. Buildings, Mescalero, N. Mex. .... Sept. 1
Sept. 29. Buildings, Ft. Leavenworth, Kan. .... Sept. 8
Sept. 30. Hall, Johnson City, Tenn. .... Sept. 1
Advertised, Eng. News, Sept. 1 to 22.
Sept. 30. School plans, Oakland, Cal. .... Aug. 25
Oct. 1. Court house plans, Manitowoc, Wis. .... Aug. 18
Oct. 1. School, Somerville, Mass. .... Sept. 1
Oct. 1. Cut granite, Washington, D. C. .... Sept. 8
Oct. 5. Post office, Pekin, Ill. .... Sept. 1
Advertised, Eng. News, Sept. 1 and 8.
Oct. 8. Buildings, New Orleans, La. .... Sept. 8
Oct. 10. Public buildings, Lawton, Okla. .... Sept. 1
Advertised, Eng. News, Sept. 1 to Oct. 6.
Oct. 12. Post office, Fond du Lac, Wis. .... Sept. 8
Nov. 2. Ventilating apparatus, Washington, D. C. .... Sept. 8
Advertised, Eng. News, Sept. 8 and 15.
No date. Building materials, Mohave City, Ariz. .... Sept. 8

WATER SUPPLY AND IRRIGATION.

Sept. 9. Reservoir, etc., Cincinnati, O. .... Aug. 18
Advertised, Eng. News, Aug. 18.
Sept. 9. Water-works, Chetek, Wis. .... Sept. 1
Sept. 9. Pumping engines, etc., New Orleans, La. .... Sept. 1
Advertised, Eng. News, Sept. 1 to Nov. 10.
Sept. 10. Water pipe, etc., Rockport Station, O. .... Sept. 1
Sept. 10. Water system, Tabor, S. Dak. .... Sept. 8
Sept. 12. Stand-pipe, Sycamore, Ill. .... Sept. 1
Sept. 12. Wood water tanks, Port Townsend, Wash. .... Sept. 1
Sept. 12. Water pipe, Victoria, B. C. .... Aug. 11
Sept. 13. Reservoir repairing, Columbus, O. .... Aug. 25
Sept. 13. Pipe, reservoir, Wenatchee, Wash. .... Sept. 1
Sept. 13. Pipe, Sandusky, O. .... Sept. 8
Sept. 14. Water pipe, Portland, Ore. .... Aug. 25
Sept. 15. Canals, etc., Montrose, Colo. .... Aug. 4
Advertised, Eng. News, Aug. 4 to Sept. 15.
Sept. 17. Water pipe, Montgomery, Ala. .... Sept. 8
Sept. 21. Cast-iron pipe, Washington, D. C. .... Sept. 8
Advertised, Eng. News, Sept. 8 and 15.
Sept. 21. Pump, Canal Dover, O. .... Sept. 1
Sept. 24. Water-works improvements, Astoria, Ore. .... Sept. 1
Sept. 26. Water system, Denver, Colo. .... Sept. 8
Sept. 27. Water mains, sewers, etc., Kiel, Wis. .... Sept. 8
Advertised, Eng. News, Sept. 8.
Sept. 29. Water-works and sewers, Emporia, Va. .... Sept. 8
Advertised, Eng. News, Sept. 8 to Sept. 29.
Sept. 30. Laying pipe, Cincinnati, O. .... Sept. 8
Oct. 1. Water-works, Savannah, Ga. .... Sept. 8
Oct. 1. Water-works, Chili .... Aug. 25
Oct. 5. Tunnel, etc., Montrose, Colo. .... Aug. 4
Advertised, Eng. News, Aug. 4 to Oct. 6.
Nov. 1. Water-works, etc., Summerside, P. E. I. .... Aug. 25
Nov. 9. Pumping machinery, New Orleans, La. .... Sept. 1
Advertised, Eng. News, Sept. 1 to Nov. 10.

SEWERAGE.

Sept. 8. Sewer pipe, Brooklyn, N. Y. .... Sept. 1
Sept. 8. Sewer, New Brunswick, N. J. .... Sept. 1
Sept. 8. Sewers, Fargo, N. Dak. .... Aug. 25
Sept. 8. Sewers, Delphos, O. .... Aug. 18
Sept. 8. Sewers, etc., Mansfield, O. .... Aug. 25
Advertised, Eng. News, Aug. 25.
Sept. 8. Drain, Hackensack, N. J. .... Aug. 25
Advertised, Eng. News, Aug. 25 and Sept. 1.
Sept. 8. Sewers, Rockford, Ill. .... Sept. 8
Sept. 9. Sewers, Omaha, Neb. .... Sept. 8
Sept. 9. Sewers, Milwaukee, Wis. .... Sept. 8
Sept. 10. Sewers, Milwaukee, Wis. .... Sept. 8
Sept. 10. Sewer, Ashtabula, O. .... Sept. 8
Sept. 10. Sewers, Seattle, Wash. .... Sept. 8
Sept. 12. Sewers, Oskaloosa, Ia. .... Sept. 8
Sept. 12. Sewer system, Indiana, Pa. .... Sept. 8
Sept. 12. Sewer, Moscow, Idaho .... Sept. 8
Sept. 12. Sewers, St. Paul, Minn. .... Sept. 8
Sept. 12. Sewerage system, Washington, D. C. .... Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 8.
Sept. 12. Sewers, S. Brooklyn, O. .... Sept. 1
Sept. 15. Sewers, Havre, Mont. .... Sept. 8
Sept. 16. Sewers, Lorain, O. .... Sept. 1
Sept. 17. Sewers, Ft. Leavenworth, Kan. .... Sept. 8
Sept. 19. Cement septic tank, Los Angeles, Cal. .... Sept. 8
Sept. 19. Sewer, Richmond, Ind. .... Sept. 8
Sept. 19. Sewer, Shreveport, La. .... Sept. 8
Sept. 20. Septic tank, etc., Tallahassee, Fla. .... Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 15.
Sept. 21. Sewers, Brooklyn, N. Y. .... Sept. 8
Sept. 22. Sewers, Cincinnati, O. .... Sept. 8
Sept. 30. Sewers, Omaha, Neb. .... Sept. 8
Advertised, Eng. News, Sept. 8 and 15.
Oct. 1. Sewer system, Savannah, Ga. .... Sept. 8
Oct. 3. Sewers, Topeka, Kan. .... Sept. 8
Nov. 1. Sewerage, Summerside, P. E. I. .... Aug. 25

STREETS AND ROADS.

Sept. 8. Paving, Xenia, O. .... Aug. 18
Sept. 8. Paving, Chillicothe, Mo. .... Aug. 25
Sept. 8. Macadamizing, Riverside, Ind. .... Sept. 1
Sept. 8. Macadam, Towson, Md. .... Sept. 1
Advertised, Eng. News, Aug. 25 to Sept. 1.
Sept. 8. Asphalt, etc., New York, N. Y. .... Sept. 1
Sept. 9. Pavement, Delaware, O. .... Sept. 1
Advertised, Eng. News, Sept. 1.
Sept. 9. Paving, Milwaukee, Wis. .... Sept. 8
Sept. 9. Sidewalks, Kennedy Heights, O. .... Sept. 8
Sept. 10. Walks, cement, Seattle, Wash. .... Sept. 8
Sept. 10. Paving, etc., Point Pleasant, W. Va. .... Sept. 8
Sept. 10. Road, Warren, Pa. .... Sept. 8
Sept. 10. Crushed stone, Wilwaukee, Wis. .... Sept. 8
Sept. 10. Cement sidewalks, Washington, D. C. .... Sept. 1
Advertised, Eng. News, Sept. 1 and 8.
Sept. 10. Paving, etc., Ashtabula, O. .... Aug. 25
Sept. 12. Curbing, etc., Muncie, Ind. .... Aug. 25
Sept. 12. Grading, macadamizing, Wabash, Ind. .... Aug. 25
Sept. 12. Paving, Kent, O. .... Aug. 25
Sept. 12. Road, Harrisburg, Pa. .... Aug. 18
Sept. 12. Pavement, Glens Falls, N. Y. .... Sept. 1
Advertised, Eng. News, Sept. 1.
Sept. 12. Paving, New Castle, Pa. .... Sept. 1
Sept. 12. Road work, Toledo, O. .... Sept. 1
Sept. 12. Graveling, Vincennes, Ind. .... Sept. 1
Sept. 12. Paving, Oskaloosa, Ia. .... Sept. 1
Sept. 12. Grading, Des Moines, Ia. .... Sept. 8
Sept. 13. Paving, Dayton, O. .... Sept. 8
Sept. 14. Paving, Cincinnati, O. .... Sept. 8
Sept. 14. Paving, etc., Brooklyn, N. Y. .... Sept. 8
Sept. 14. Road grader, Chico, Cal. .... Sept. 1
Sept. 14. Grading, graveling, Cleveland, O. .... Aug. 25
Sept. 15. Paving, brick, Barnesville, O. .... Aug. 11
Sept. 15. Paving, etc., Marysville, O. .... Sept. 1
Sept. 15. Macadamizing, Green Bay, Wis. .... Sept. 1
Sept. 16. Paving, Lorain, O. .... Aug. 25
Sept. 16. Macadamizing, New York, N. Y. .... Sept. 8
Sept. 17. Road, Sonora, Cal. .... Sept. 8
Sept. 17. Road, Sweden, Pa. .... Sept. 1
Sept. 17. Road, Eulalia, Pa. .... Sept. 1
Sept. 19. Paving, etc., Medina, O. .... Sept. 8
Sept. 19. Grading, Brigham City, Utah .... Sept. 8
Sept. 19. Sidewalks, Miles City, Mont. .... Sept. 8
Sept. 20. Sidewalks, Cincinnati, O. .... Sept. 1
Sept. 20. Macadamizing, Prairie Depot, O. .... Sept. 1
Sept. 26. Roads, Cooper, Pa. .... Sept. 1
Sept. 27. Road work, Erie, Pa. .... Sept. 8
Sept. 28. Paving, Cincinnati, O. .... Sept. 8
Sept. 28. Paving, Hoboken, N. J. .... Sept. 8
Sept. 29. Pikes, Bellaire, O. .... Sept. 8
Oct. 3. Road, Yuma, Ariz. .... Aug. 11
No date. Paving, brick, Morris, Ill. .... July 21
Advertised, Eng. News, July 21 to Oct. 13.
No date. Paving, vitrified brick, Verona, Pa. .... Sept. 8
No date. Paving, brick, etc., Etna, Pa. .... Sept. 8

MISCELLANEOUS CONTRACTS.

Sept. 8. Cleaning lake, New York, N. Y. .... Sept. 1
Sept. 8. Jetty, New York, N. Y. .... Sept. 1
Sept. 8. Lock gates, Pittsburg, Pa. .... Sept. 1
Advertised, Eng. News, Sept. 1 and 8.

Write our advertisers when you intend to buy your supplies and machinery for improvements, or for carrying out your contracts. If you do not find what you want in our advertising pages write us for list of firms, and we will put you in communication with them at once.

Sept. 8. **Lock gates and anchorages, Pittsburg, Pa..Aug. 11**
Advertised, Eng. News, Aug. 11 to Sept. 8.
Sept. 9. Steel, iron, etc., Chicago, Ill............Aug. 11
Advertised, Eng. News, Aug. 11 to Sept. 8.
Sept. 10. Window and door screens, Prescott, Ariz. Aug. 4
Advertised, Eng. News, Aug. 4 to Sept. 1.
Sept. 10. Store house, Norfolk, Va...............Aug. 18
Sept. 10. Earthwork, New Orleans, La............Aug. 25
Sept. 10. Dock work, Huntington, L. I..........Sept. 1
Advertised, Eng. News, Sept. 1.
Sept. 10. Dredging, New York, N. Y.............Sept. 8
Sept. 12. Levee reconstruction, Sacramento, Cal..Sept. 8
Sept. 13. Terra cotta, Washington, D. C.........Sept. 8
Sept. 13. Hire of dredging plant, Detroit, Mich....Aug. 25
Sept. 13. Crib removal, Cleveland, O.............Aug. 18
Advertised, Eng. News, Aug. 18 to Sept. 1.
Sept. 14. Public comfort station, New York, N. Y..Sept. 8
Sept. 15. Railway grading, Norfolk, Va...........Sept. 8
Sept. 17. Dredging, New London, Conn...........Sept. 1
Advertised, Eng. News, Sept. 1 to Sept. 22.
Sept. 17. Electric capstans, Washington, D. C....Sept. 1
Sept. 17. Underground cables, Washington, D. C..Sept. 1
Sept. 17. Concrete drain, Washington, D. C......Sept. 1
Sept. 21. Stone wall, Chicago, Ill...............Sept. 1
Sept. 21. Crane, Washington, D. C...............Sept. 8
Sept. 22. Telephone system, Montrose, Colo......Aug. 18
Advertised, Eng. News, Aug. 18 to Sept. 29.
Sept. 22. Harbor improvement, Galveston, Tex....Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 22.
Sept. 22. Library stack work, New York, N. Y....Aug. 11
Sept. 24. Dredging, Mobile, Ala.................Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 22.
Sept. 24. Steel work, Washington, D. C...........Sept. 8
Sept. 24. Dike and concrete wall, Painted Post, N.Y. Sept. 8
Advertised, Eng. News, Sept. 8 and 15.
Sept. 24. Remodeling wharf, Fort Mott, N. J.....Sept. 8
Advertised, Eng. News, Sept. 8 and 15.
Sept. 27. Repairing jetties, New London, Conn...Sept. 8
Advertised, Eng. News, Sept. 8 to Sept. 29.
Sept. 27. Wrought iron, etc., Washington, D. C..Sept. 8
Sept. 27. Machine tools, Washington, D. C......Sept. 1
Sept. 27. Dam, Cincinnati, O...................Sept. 1
Advertised, Eng. News, Sept. 1 to Sept. 29.
Sept. 28. Ditch, St. Cloud, Minn................Sept. 8
Sept. 30. Dredging, Portland, Me................Sept. 8
Sept. 30. Steel lock gates, Louisville, Ky.........Sept. 1
Advertised, Eng. News, Sept. 1 to Sept. 29.
Oct. 1. Cut granite, Washington D. C..........Sept. 1
Advertised, Eng. News, Sept. 1 to Sept. 29.
Oct. 1. Telephone service, Toronto, Ont.........Aug. 25
Advertised, Eng. News, Aug. 24 to Sept. 15.
Oct. 6. Engines, generators, etc., West Point, N.Y. Sept. 8
Advertised, Eng. News, Sept. 8 to Oct. 6.
Oct. 6. Boiler, Wilmington, N. C...............Sept. 8
Advertised, Eng. News, Sept. 8 to Oct. 6.
Oct. 12. Embankment, Chicago, Ill..............Aug. 18
Oct. 15. Tug boat, Cuba........................Aug 18
Oct. 15. Plans for harbor, Sweden (Foreign)....April 21
Oct. 15. Completing dry-dock, Washington, D. C. Sept. 1
Oct. 15. Dam, Hendrix, Pa......................Sept. 8
Oct. 22. Railway construction, Brazil............Aug. 25
Nov. 10. Docks, moles and forts, Chili............Aug. 18

RAILWAYS.

ALASKA CENTRAL.—H. M. Coleman, Gen. Commissary, has stated that 18 miles have been graded, and over 12 miles completed of proposed 413, that will run from Resurrection Bay to Fairbanks, Alaska. Workmen are being engaged by Mr. Coleman, at Seattle, Wash., who also is arranging further details for construction work, it is said.

ARLINGTON-CONDON.—Supplementary articles of incorporation have been filed. It is estimated that new road will cost about $1,000,000; this will include buildings and station-houses, but not the rolling stock, that will be supplied by the Oregon Railroad & Navigation Co. The road, while it is said to be practically a branch of the O. R. & N., will be under separate management. The routes mapped out in the amendment to the articles of incorporation are as follows: (1) a line from Arlington, Ore., to Condon. (2) A line from a connection with the Oregon Ry. & Navigation Co., at a point near the mouth of the John Day River, Ore., and thence up the river to some point to be selected, and thence to the town of Condon. (3) a line from Ione, Ore., to Condon. (4) a line from a connection with the Oregon Ry. & Navigation Co., to Arlington, by route to be selected to a point near Rock Creek, in a general southeasterly direction, and along or near the divide between Rock Creek and Hay Creek, and thence to Condon. It has been decided to use one of these routes; surveys will determine which. W. H. Kennedy, Portland, Ore., is Ch. Engr., of the Oregon Ry. & Navigation Co. In issue of Aug. 18 it was stated that E. E. Calvin, Gen. Mgr., Portland, Ore., had recently made trip to the country which will be touched by the road, and announced that work on the line will begin soon. Contract for grading, culverts and bridges from Arlington to Condon, Ore., 46 miles, has been awarded to the Pacific Coast Construction Co. of Portland, Ore., it is reported. Work is to begin at once, and is to be completed by Dec. 31 next.

ASTORIA & COLUMBIA.—Road will be extended six miles below Seaside, Ore., to rock quarries. Survey has been completed. Work to begin soon. John McGuire, Astoria, Ore., is Supt.

ATLANTIC AND NORTH CAROLINA.—We are informed that this road has been leased to Richard S. Howland, of Providence, R. I., for 90 years. Mr. Howland contracts to spend $250,000 on the permanent improvement of the road during the first three years. The R. H. Tingley Co., Consulting Engineers, 29 Broadway, New York, has been appointed consulting engineer on this reconstruction work. The Atlantic & North Carolina runs from Goldsboro, N. C., where it connects with the Southern Railway & Atlantic Coast Line to Morehead City, N. C., 96 miles. R. H. Tingly, Ch. Engr., Tingley Co., may be addressed.

ATLANTIC COAST LINE.—Gainesville, Fla., papers report that this road will extend the recently acquired Jacksonville & Southwestern Ry. from Newberry to Fort Fannin, on the Suwannee river, about 20 miles. Surveys are said to be under way. E. S. Spencer, Jacksonville, Fla., is Gen. Mgr. of the J. & S. Co.

BESSEMER & LAKE ERIE.—It is rumored that this company will run a line into Buffalo, N. Y. Another report states that the company will arrange for trackage right into Buffalo over the New York, Chicago & St. Louis Ry. H. T. Porter is Ch. Engr., Greenville, Pa.

BUFFALO & SUSQUEHANNA.—An extension of this road to Pittsburg is under serious consideration it is reported. Line is to be extended from Newfield Junction, N. Y., to Wellsville, Belmont, Olean, and finally to Buffalo, and from Addison to Elmira, through leases of the Erie's lines, to those points. New lines will be constructed from Driftwood to DuBois, 40 miles. Switchback between Austin and Galeton will be eliminated and in order to do this the company will construct a 2-mile tunnel through Mina Hill, two miles southwest of Coudersport, between that town and Austin. Cost, $1,000,000, or $125 per foot. H. Herden, Ch. Engr., is at Galeton, Pa.

CLARKSDALE, LYON & FRIARS POINT.—James F. Hunter, Gen. Mgr. Tennessee Trust Co., Memphis, Tenn., is interested in plan to build a 14-mile railway under the this name from Clarksdale to Friars Point, Tenn. Capital is said to have been secured.

CINCINNATI, HAMILTON & DAYTON.—It is stated that contracts for ties and rails have not yet been let for the branch line from Dayton to Richmond, Ind. Work on this line will be begun in the fall, it is said. Mentioned on Aug. 11.

This company which recently acquired the Chicago, Cincinnati & Louisville Ry. will enlarge the shops at Peru, Ind., it is reported. Cost, $120,000. C. A. Wilson is Ch. Engr., Cincinnati, O.

DELTA SOUTHERN.—Notice of the incorporation of this road appeared in issue of Aug. 25. An officer of the company states that charter has been granted to construct a railroad from Kuhn, on Bayou Pholia, in Bolivar county, to Campbellsville, on the lower Sunflower river, in Yazoo county, in Miss. The Percy branch of the Southern Railway will constitute a part of the road; Leland to Percy on Deer Creek, in Washington county. Bids were advertised for until Aug. 30 for construction of ten miles of road near Elizabeth, Miss., to be received by E. M. Durham, Jr., Resident Engr. Southern Ry., Birmingham, Ala. It is said that the line will be about 60 miles long. Offices of the company will be at Greenville, Miss. Incorporators were D. S. McMullin, Chicago, Ill.; Joshua Skinner and Capt. W. W. Stone, Greeneville, Miss.; J. S. B. Thompson, Atlanta, Ga.; M. M. Richey, of Birmingham, Ala., and others.

DENVER, BIG HORN & PACIFIC.—A road through the Big Horn country, from Denver, Colo., to connect with the Northern Pacific at Livingston, Mont., is said to be projected.

KANSAS CITY, BURLINGAME & WESTERN.—A. L. Hartbridge, Ch. Engr., Olathe, Kan., writes that he has finished preliminary survey as far as Council Grove, Kan., for this line. This is as far as the company will extend at present. Mr. Hartbridge is preparing estimates and wishes to hear from contractors for piling work; bridge timber; oak ties, 9 ft. × 8 ins. × 6-in.; also for grading.

KOOTENAY CENTRAL.—Surveys are being run for building this road from Golden, B. C., that will connect the Canadian Pacific Ry. at that point with the Crow's Nest branch, south of Fort Steele, B. C.

LITTLE ROCK & SOUTHERN.—Surveys have been made for seventy-five miles of proposed route from Hamburg, Ark., northwesterly. Company was incorporated to build from Ashley county in a northwesterly direction through Bradley, Calhoun, Dallas, Grant and Saline counties to intersect with the St. Louis, Iron Mountain and Southern and the Hot Springs branch of the Rock Island. Another projection is to be run from a point in Calhoun county southwesternly through Union county to El Dorado. A third projection of this road is to be run from Malvern, southwest through Hot Springs and Dallas counties, and connect with the Eldorado branch. Cost of the road will be about $4,500,000.

MISSOURI PACIFIC.—It is reported that a new railroad will be built from Keener to Harrison, Ark., by this railway. The Keene Construction Co. has the contract.

MORGANTOWN & KINGWOOD.—Line will be extended from Masontown to Rowlesburg, W. Va., via Reedsville, Albrightsville and Cheat river; about 15 miles. F. K. Bretz is Gen. Mgr., Morgantown, W. Va. Davis Elkins is Pres.

MINERAL POINT & NORTHERN.—Empire Construction Co. is reported to have contract for building this road from Mineral Point, Wis. to Highland, 30 miles. C. W. McIlhon, Mineral Point, is Pres. As announced in issue of Aug. 11 grading on this road has been begun between Mineral Point and Linden, Wis. D. E. Shugert, Nevada, Ia., has contract for the 24 miles of grading between the two places.

NEW YORK, NEW HAVEN & HARTFORD.—This company has under consideration much heavy work: West Roxbury—Needham extension at Boston; Attleboro grade crossing elimination; Providence, tunnel; Pequonnoc, roundhouse; Connecticut River bridge; 4-tracking through New Haven; Housatonic River bridge; Cos Cob bridge; Westport bridge. The New Haven improvement includes 4-tracking 8,000 ft. through city; 13 highway bridges, one a floor 900 ft. long carrying street over parallel tracks; 2-arch stone track bridge, 7 ft. span arches; street grades raised to give 16 ft. clear headroom; extensive betterments in alinement; work to be done without interference with present traffic, about 300 daily trains; and with maintenance of highway traffic of at least two points throughout the division of work, no two consecutive streets being closed at same time. This work is in the hands of the Aldermen and of Railroad Commission. Grading, masonry, etc., will probably be let to contractors; also track work (100-lb. rails throughout, N. Y., N. H. & H. Standard) by railroad; C. M. Ingersoll is Ch. Engr., Hartford, Conn. C. R. Harte is Asst. Engr., New Haven, Conn.

NEW YORK, NEW HAVEN & HARTFORD.—Charles S. Mellen, Pres., has announced the intention of this company to expend $8,000,000 to $10,000,000 in rebuilding and extending its lines near New York. Plans have been made and estimates submitted for a system including four third-rail electric and two steam tracks on the Harlem branch of the road, running from Harlem river at Willis Ave. and 133d St., the end of the Second Ave. system, New York, to New Rochelle. Formal approval of the state and city authorities is necessary before beginning construction work. It is stated that improvements will be begun about Oct. 1. The directors of the road are now considering a further plan for a branch from West Farms along the Bronx valley to Woodlawn, in the southern part of Mt. Vernon. The two steam tracks will be the outlet for the New York Connecting Railway (that is noted in this issue), running from the Harlem over Randall's and Ward's islands to Astoria, where a connection with the Pennsylvania Railroad will be made. The formal application to the State Railroad Commissioners shows that present estimate of cost of improvement is $7,701,891; it is said, however, that this will be exceeded. According to report of C. M. Ingersoll, New Haven, Conn., Ch. Engr., cost of "six-tracking," eliminating grade crossings and constructing new stations will amount to $4,825,891. B. F. Simmons of Boston, Asst. Ch. of electrical department, estimates cost of electrical equipment at $2,876,000, as follows: 70 electrically-equipped cars, $750,000; four third-rails, with top protections, and bonding surface rails with necessary marine cable at drawbridges, $415,000; feed wire, high tension wires, and pole line complete, $336,000; two sub-stations (complete with electrical apparatus), $280,000; power house complete with all material, $920,000; car barn complete, $100,000; sundries, $75,000; total, $2,876,000. The power house will be built as near the middle of the branch as the availability of a site with water power will permit. Two sub-stations will be between the power station and each end. Car barn probably will be at New Rochelle or Port Chester. Cars will be of standard construction, similar to those used by the Interborough Co., so that they may be run over the Interborough lines to the downtown business section of New York.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

NEW YORK, ONTARIO & WESTERN.—This company will erect a new freight house in East Schuyler St., between Second and Fourth Sts., Oswego, N. Y., that will cost between $12,000 and $15,000. Building will be of brick, 100 × 30 ft. E. Canfield, Gen. Supt., Middletown, N. Y.

OVERTON COUNTY RY.—It is reported that the Southern Construction Co., Land Title Building, Philadelphia, will let contracts soon for building 18 miles of the proposel Overton County Railroad from a connection with the Tennessee Central Railroad to Livingston, Tenn. Surveys have been made. P. Armitage, 3700 Locust St., Philadelphia, is Ch. Engr. Headquarters of the railroad are at Livingston, Tenn.

PENNSYLVANIA.—The New York Connecting Ry. Co. recently applied to Long Island City authorities for a franchise to build the line that will connect the Pennsylvania at Brooklyn with the tracks from the Long Island tunnel. It will be a 4-track, stone-ballasted road, about 10 miles long. A bridge that will span the East River and Little Hell Gate will be 140 ft. above surface of river and 90 ft. above Ward and Randall Islands. It will reach the Bronx shore near Port Morris, connecting with tracks there for Boston. Surveys for the line were made some time ago, and have been verified, and it is stated that the maps and plans are already for the work to begin when city authorities grant the franchise asked for by the company. There will be no grade crossings on proposed line.

PENNSYLVANIA LINES WEST OF PITTSBURG—SOUTHWEST.—Work will begin on the Pittsburg, Cincinnati, Chicago & St. Louis Ry. extension from Chester to Monaca, Pa., within next two months, it is said. Distance is about 20 miles. Thos. Rood, Pittsburg, is Ch. Engr.

SAN ANTONIO & GULF.—An extension of this road from its present terminus at Stockdale, Tex., is being considered by the company. Propositions are being made to citizens along the proposed line for bonuses of land and money. The extension will be made from Stockdale to Cuero, about 40 miles. E. E. Shackford is Gen. Mgr., San Antonio, Tex.

SOUTHERN.—Knoxville, Tenn., "Sentinel" quotes Henry M. Fonde, Gen. Agt. at Knoxville, in stating that this company is making preparations to build the Clear Fork branch of the railroad to the waters of Bennett's Fork, not far from Middlesboro, Ky., about 14 miles. It will be built in connection with the Louisville & Nashville Ry. Contract has been let for cross ties.

ST. LOUIS, BROWNSVILLE & MEXICO.—J. N. Miller, Gen. Mgr., at Corpus Christi, Tex., confirms the report that this road will be extended at once from Robstown, its present connection with the Texas Mexican Ry. northeast via Sinton to Bay City, about 153 miles. Contracts have been let and construction will begin at once. The line from Robstown south to Brownsville, 141 miles, has been completed and the branch line from Harlingen west to the Rio Grande River opposite San Miguel, Mexico, 57 miles, will be completed within 30 days. Preliminary surveys have been made from Robstown to Bay City and final location is being made. From Bay City the road will be extended to Houston, about 75 miles, with probably a branch line from some point to Galveston. F. G. Jonah is Ch. Engr., Corpus Christi, Tex. Johnson Bros., contractors, Frank P. Read, Supt., Corpus Christi, have contract for the construction of extension. Subcontract for grading has been let to Johnston & Read; track laying, bridges and buildings to the McCabe & Steen Construction Co.; masonry, Hedges-Gosney Construction Co., with headquarters at Corpus Christi.

TENNESSEE.—Contract for construction of the branch railroad, 5½ miles, from the Cincinnati, New Orleans & Texas Pacific Ry. at Cardiff, Tenn., into the iron ore regions of the Roane Iron Co. has been awarded to J. W. Borches, Bowles & Coon, of Knoxville, Tenn.

TEXAS.—Our correspondent writes that Col. L. J. Polk, of Galveston, Texas, former Gen. Mgr., and Vice-Pres. of the Gulf, Colorado & Santa Fe Railway, has announced that he is at the head of a company that proposes to build a line of railroad from San Antonio south, via Pleasanton, Tilden, and Hebronville to the Rio Grande at Rio Grande City, about 230 miles. The line will develop one of the most fertile and productive portions of Texas which is yet unoccupied by railroads. Propositions for support will shortly be made to San Antonio and other towns along the proposed route, when the road will be chartered and work begin on construction. Col. Polk states that arrangements have already been made to finance the proposition. At Rio Grande City it is proposed to connect with the Mexican National Ry. that is now building to this point from Monterey, Mex.

TEXAS SOUTHERN.—This railway, extending from Marshall, Tex., to Winnsboro, Tex., 74 miles, was recently placed in the hands of a receiver. It has been ordered sold by order of the Judge of the District Court. S. P. Jones, is receiver, Marshall, Tex.

TEXAS.—John E. Ferguson, Hereford, Tex., writes that route for proposed line that probably will be built from Umbarger south to Lubbock, Tex., about 100 miles, has not been definitely decided. Two surveys have been made and another is proposed. It was reported that road would connect with the Pecos Valley Division of the Santa Fe at Umbarger, and that that road is back of the project. Capital has been secured for construction. Contracts are yet to be let. C. L. Tallmadge, Chicago, Ill., is Pres. of the company, a name for which has not been decided upon. Line may be built from Hereford, Tex. Estimated length, about 130 miles.

TONOPAH.—Several miles of track are reported to have been washed out by cloudburst near Sodaville, Nev.

TONOPAH & TIDEWATER.—This company, recently incorporated with capital of $1,000,000, will build from Ivanpah, on the Barnwell branch of the Santa Fe Ry., to Tonopah, Nev. Recently we were informed that first section of this road had been surveyed and right of way secured, as had the capital for construction. Some of the contracts have been let. 100 miles of grading is now completed. F. M. Smith, 100 William St., New York, is Pres., and may be addressed.

VIRGINIA.—Bids are asked until Sept. 15 by the Greenleaf, Johnson Lumber Co., Norfolk, Va., for grading 6 miles of railway track at Vaughn, N. C., comprising approximately 80,000 yds. of earth excavation and 600 lin. ft. of trestle. For detailed information apply at the of-

fice of the company in Norfolk, or E. W. Smith, Engr.-in-Charge at Vaughn, N. C., where profile and maps can be seen.

WINFIELD & SOUTHERN.—Denver, Colo., captialists are reported to have favorably considered proposition to finance this proposed line, from coal fields near Tulsa, Ind. T., to Winfield, Kan., via Maple City, Kan., and Pawhuska, Okla., about 115 miles. W. C. Robinson is Pres., Winfield, Kan.

WEST SIDE BELT RY.—It is reported that on Sept. 3 this company, and the old Pittsburg, Canonsburg & State Line Ry. Co., were merged. The latter was chartered to build a line from Old Ave., Pittsburg, to Wellsburg, W. Va. The West Side Belt Co. may carry out the project. This company, which is said to be connected with the Pittsburg Terminal Railway & Coal Co., bought the Pittsburg, Canonsburg & State Line Ry. several years ago. H. T. Douglas, Jr., Pittsburg, is Ch. Engr.

WESTERN MARYLAND.—It is reported that this company has awarded contract to J. J. Walsh & Son, 1525 Maryland Ave., Baltimore, Md., for construction of turntable and roundhouse to be located at Westport, Md. Turntable will be 75 ft. in diameter, with capacity of 200 tons. Roundhouse to be of frame construction capable of housing four engines and so constructed as to admit of future additions.

NEW INCORPORATIONS AND CHARTERS.

CEDAR FALLS & NORTHEASTERN.—Iowa.—Company has been incorporated with capital stock of $25,000. Stuyvesant Fish, Pres.; J. C. Welling, 1st Vice-Pres.; J. F. Harrahan, 2d Vice-Pres.; W. G. Bruen, Secy., Dubuque, Ia. Company will build a railroad from a junction with the Dubuque & Sioux City Ry., near Cedar Falls, extending in a northeasterly direction to a connection with what was formerly known as the Cedar Falls & Minnesota railroad, between Mona Junction and Janesville, Ia. Right-of-way has ben secured and the construction of the road will begin at once. It will be about two miles in length.

EASTERN.—N. J.—Articles of incorporation have been filed. Authorized capital stock, $100,000, of which $1,500 has been paid in. Incorporators: Scott Mills, Paul Munter and James Mapletoft.

KANSAS CITY, OKLAHOMA & HOUSTON.—Texas.—This company that was chartered in Oklahoma, has filed a charter in Texas providing for the construction of a line from Lake West on Red River, south via Bonham, and Greenville, through the counties of Fannin, Hunt, Van Zandt, and Henderson, to Athens, about 125 miles. Capital stock is $125,000. General offices will be located at Athens, Tex. Incorporators are P. W. Bean and A. C. Springs, of Kansas City, Mo.; M. C. Wolfe, of Wolfe City, Tex.; John W. Davidson, of Canton; J. T. Larue, of Athens, Tex., and others. It is stated that this company is the Texas corporation of a company which proposes to build a line of railway from Kansas City directly south to the Gulf of Mexico at Galveston, and that the "Burlington System" is backing the project. It is stated that the proposed line will be shorter by 200 miles than the present shortest line from Kansas City to the Gulf.

KENTUCKY MIDLAND.—Ky.—Incorporated with $1,000,000 capital, to construct a line from Madisonville to Central City, 26 miles. Incorporators are: P. J. and R. J. Jennings, of Portland, Ore.; E. D. Trenholm, of Spokane, Wash., and B. E. Wood and J. Erb, of Beloit, Wis. Under the articles of incorporation the company can construct either steam or an electric line.

MILLERS CREEK.—Ky.—Company was incorporated to build a railroad 16 miles long up Johns creek, in Johnson County. The names of incorporators are not given.

DYERSVILLE & NORTHERN.—Iowa.—Company has incorporated, with $75,000 capital, to build from Dyersville to New Vienna, Ga. G. H. Hessellmann, Dyersville, Ia., wrote us recently that right of way has been secured and capital secured for building this road. Wilbur A. Ginn, Columbus, O., is Ch. Engr., and may be addressed.

SWAINSBORO & STATESBORO.—Ga.—J. A. Coleman, of Swainsboro, Ga.; A. A. Turner and W. M. Lanier, of Lon; J. D. Overstreet, of Summit and others have applied for a charter to build a railroad from Swainsboro to Statesboro via Summit.

WHEELING, WAYNESBURG & EASTERN TERMINAL.—W. Va.—Company has been chartered to build a railroad in Marshall county, West Virginia. Authorized capital stock, $100,000. Incorporators: Francis K. Kimball, Seth Cushman, New York; Fred. E. Trenton, Bayonne, N. J.; Fredrick H. Roosa, Kingston, N. Y.; Maximillian T. Brizano, Philadelphia, Pa.

STREET AND ELECTRIC RAILWAYS.

SOUTHINGTON, CONN.—Directors of Connecticut Railway & Lighting Co., A. M. Young, Pres., Bridgeport, Conn., will consider early in September the construction of a connecting trolley line from Milldale to Cheshire, five miles.

NEW YORK, N. Y.—New York, New Haven & Hartford R. R. Co. has announced its intention to transform its line from New Rochelle, N. Y. to Portchester into an electric traction system. Harlem River branch will also be made into a third-rail electric road. D. B. Scott, Providence, R. I., is Elec. Engr., N. Y., N. H. & H. R. R.

DEPEW, N. Y.—Buffalo & Depew Ry. Co. has advertised its intentions and will apply to State Railroad Commission for permission to build an extension from Depew to Rochester, 60 miles. Construction of 7.8 mile extension in Rochester, N. Y., is also contemplated. Geo. A. Ricker, Buffalo, N. Y., is Ch. Engr.

SYRACUSE, N. Y.—Residents of East Syracuse have asked Syracuse Rapid Transit Co., E. G. Conneth, Gen. Mgr., to extend its line 3½ miles from that place to Minoa.

CLIFTON SPRINGS, N. Y.—Surveyors have been at work in this village laying out proposed route for spur of the Rochester & Eastern trolley road to connect Canandaigua and Geneva, by way of Shortsville, Manchester, Clifton Springs and Phelps.

BOLIVAR, N. Y.—Right of way between this place and Allentown, 6½ miles, is stated to have been promised for projected trolley line to connect the two places and possibly Wellsville. It is estimated that it will cost $10,000 per mile to build and equip the road, and it is said that the road will probably be built to Allentown this year.

SYRACUSE, N. Y.—It is reported that Syracuse & Ontario R. R. Co. is looking up franchise with the plan in mind of extending the Syracuse, Lakeside & Baldwinsville Street Ry. to Oswego.

ALBION, N. Y.—Albion & Rochester Ry. Co. was incorporated Sept. 2, with a capital of $300,000, to build and operate a street surface railway from East State St. and Butts Road, Albion, Orleans County, to Lyell Ave., Rochester, 28 miles.

The Albion & Lockport Ry. Co. was also incorporated to operate a street surface railway, 25 miles long, from Albion to Lockport. The capital is $260,000. The directors of both of the companies are the same, as follows: A. K. Potter, of Lockport, N. Y.; Lorenzo Burrows and George B. Church, of Albion.

HANOVER, N. J.—Township Committee has granted a franchise to the Delaware Traction Co. for a trolley railway over eight miles of township roads, beginning at Water St. and Hanover Ave., at Collinsville, and running through Malapardis, Whippany and Hanover to Cook's Bridge, the dividing line between Morris and Essex Counties.

CLEARFIELD, PA.—Local reports state that corps of engineers, headed by E. W. Hess, have gone to Patton, Cambria County, to survey the route for a street car line, 25 miles long, to connect the towns of Patton, St. Boniface, Hastings, Barnesboro, St. Benedict, Bakerton and Carrollton, located in the bituminous coal district of the county.

HARRISBURG, PA.—Central Pennsylvania Traction Co., Frank B. Musser, Pres., is considering purchase of People's bridge at Walnut St., with intention of double-tracking it and otherwise improving the line. The extension of the Paxtang line to Hummelstown has been under consideration, as has the building of a large trolley car storage house on Cameron St.

PITTSBURG, PA.—Preliminary steps have been taken to incorporate the City Traction Co., which is to be the holding company of the charters of the State by the nine underlying interests and of any franchises which may be granted by Councils, ordinances for which were introduced at the last meeting of Select Council. Robert C. Hall, 4th Ave., Pittsburg, Pa., is interested.

CHAMBERSBURG, PA.—Officials of the Chambersburg, Greencastle & Waynesboro Street Ry. Co. have been seeking practicable route for an extension to Highfield and Monterey. Jno. M. Wolff, Waynesboro, Pa., is Mgr.

JOHNSTOWN, PA.—Northern Cambria Street Ry. Co., W. H. Denlinger, Pres., Patton, Pa., has had surveys started for new 25-mile line in northern part of Cambria County. It will pass through St. Boniface, Hastings, Barnesboro, Spangles, St. Benedict, Bakerton and Carrolltown, Pa.

GREENSBURG PA.—We are informed that the Pittsburg, McKeesport & Greensburg Ry. Co. has let a contract for the grading and tracklaying on 5½ miles of road to P. F. McCann of this place. Of the 5½ miles, about half a mile will be made up of bridges, there being nine in all. Two of these will be over 550 ft. long, and the shortest 65 ft. The bridge contract has not as yet been let. W. D. Chapman is Gen. Mgr. and P. A. Meyer, Engr.

JACKSON, MISS.—Woodville & Fort Adams Electric Ry. Co. has applied for charter to build electric road from Fort Adams to Woodville. The incorporators propose to get this part of the line under way at once, and then to extend it further to Gloster, Centerville, or some other point, according to the encouragement and inducements held out.

LOUISVILLE, KY.—Louisville & Eastern R. R. Co., M. H. Butler, Ch. Engr., Louisville, proposes to build to Frankfort. This work, however, will probably not be taken up before next year.

WASHINGTON, IND.—W. H. Schott, representing Eastern capitalists, has asked the City Council for a franchise for an interurban electric line through Washington, to connect with Loogootee, Vincennes and Petersburg. The system is to be called the Washington, Vincennes & Eastern Traction Co., and will be incorporated with $1,000,000 capital.

WINONA LAKE, IND.—Warsaw & Goshen Interurban Co., which has been voted $55,000 sudsidies by Warsaw and Goshen, will, it is stated, began construction work at once. Necessary surveys have been made and company will buy all franchises and right of way of Elkhart, Nappance, Warsaw & Winono Road, project for which was abandoned. J. F. Beyer, Warsaw, Ind., is Vice-Pres., and Rev. Sol. C. Dickey, Indianapolis, Ind., Secy. and Gen. Mgr.

BAY CITY, MICH.—Bay City & Caro Railroad Co. has been incorporated with a capital of $30,000 to build an electric railway from Bay City to Caro, 30 miles. Alex. Zagelmeyer and Edward L. Mather, Bay City, are interested.

CANTON, ILL.—Directors of Illinois Central Electric Ry. Co. have offered to subscribe $50,000 if people along route between Norris and Lewistown would take an equal amount of stock. It is stated that if $75,000 of stock is subscribed the road will be built from this place to Lewistown at the present time. S. A. Drake, Pres., Canton Commercial Club, may be able to give information.

CENTRALIA, ILL.—Contract for construction of Southern Illinois Electric Ry. is stated to have been signed with Seeton & Co., 79 Wall St., New York. The road is to be completed by July, 1905.

SPRINGFIELD, ILL.—Springfield & Eastern Ry. Co. has been incorporated in New Jersey to build a line from Capitol Ave. and East Grand Ave. to point in East Springfield and to extend the road through Sangamon and adjacent counties if desired. The incorporation is for the purpose of holding the stock of the Springfield Consolidated Ry. Co. and the interurban for the right of way through the village of East Springfield. Emil G. Schmidt, Mgr., Springfield Consolidated Ry. Co., is local representative.

CRESTON, IA.—A. E. Parks, Chicago, Ill., an attorney representing eastern capital, has been here investigating franchises of Creston & Winterset electric line, and it is said, that if they prove satisfactory, parties he represents will furnish the money to build the road.

CHANUTE, KAN.—Council has granted franchise for constructing electric car line on certain streets to F. V. Crouch, Iola, Kan. According to terms of franchise $10,000 must be expended for construction work in this city within 12 months.

LINCOLN, NEB.—Farmers in the South Loup Valley are agitating for an electric line. G. L. Crookham, Sumner, Neb., is interested.

GALENA, MO.—A Joplin, Mo., press report states that all the plans for the new electric line between Galena and Baxter Springs have been completed and work on the roadbed will begin at once. It is said that the new road will operate jointly with the Southwest Missouri electric, making a continuous route from Carthage, Mo., to Baxter Springs.

ST. JOSEPH, MO.—St. Joseph Interurban Ry. Co. is asked. Right of way is stated to have been secured from city limits, and are said to have decided to use no part of the right of way for which the original franchise was asked. Right of way is stated to have been se[illegible] from Stanberry to this place, and company is abou[illegible]dy to finance its line. George C. Sims, Des Moines, I[illegible] Pres.

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FORT WORTH, TEX.—Fort Worth Belt Lin[illegible] has made amendment to its charter increasing cap[illegible] from $100,000 to $500,000.

SHERIDAN, WYO.—C. L. Laune and J. C. T[illegible]sson have been here looking over the field with a [illegible]w to building an electric railway. It is thought tha[illegible] line is built in Sheridan it also will be built to Bu[illegible] and to Dietz and Monarch coal camps north of the ci[illegible]

EVERETT, WASH.—E. G. Kruger, of Silver [illegible] has asked for a franchise from the County Commissio[illegible] for an electric line over the county road between Ga[illegible] and Mineral City.

MONTESANO, WASH.—J. B. Weddell and W. [illegible] Haycox, of Olympia, Wash., have asked City Coun[illegible] for a franchise for an electric road through the city. They propose to build an electric line from Olympia t[illegible] Aberdeen with a branch line from Gate City running through Centralia to Chehalis.

MEDICAL LAKE, WASH.—The Washington Water Power Co., Spokane, Wash., has been surveying through the streets of Medical Lake in order to frame a petition for a franchise. It is said work on the electric railway will begin this fall.

SPOKANE, WASH.—J. M. Boyd, Spokane, Wash., is stated to be promoting a scheme to build an interurban electric road from Baker City, Ore., to La Grande, Ore. The new company will ask for franchises through the city streets. The proposed line will be operated with power from Rock Creek.

SALEM, ORE.—It is reported that Mayor Frank W. Waters has made a proposition to the people of Liberty and Rosedale regarding the proposed electric line extension to those neighborhoods. He proposes to furnish and install the necessary rails, wires and tracks and furnish required power and energy and cars if the residents will furnish free of cost the right of way, do the required grading, and furnish the ties and trolley wire poles and do the work.

PORTLAND, ORE.—Westinghouse Electric & Manufacturing Co., New York, is said to be preparing plans, specifications and estimates for the complete electrical equipment and construction of the Portland Southern line and also for a trolley line to run from Portland to the base of Mt. Hood by power generated near that mountain on Sandy River.

OREGON CITY, ORE.—C. F. Clark, of Clackamas, Ore., and other citizens are promoting a project to build an electric line from East Oregon City via Clackamas and Milwaukee to Portland.

SUMPTER, ORE.—The Eastern Oregon Development Co. of Sumpter has surveyors in the field in the Grand Ronde Valley between Cove and La Grande. It is proposed to build an electric road to extend a distance of 41 miles.

SAN FRANCISCO, CAL.—Plans are stated to be under way for new electric system for the Southern Pacific R. R. suburban lines across the bay. It has been decided to operate the Berkeley, Oakland and Alameda lines of the Southern Pacific on a third-rail system similar to the North Shore railroad, instead of the overhead trolley wire system.

FALLON, NEV.—It is stated that W. H. Patterson and Alviro Evans, Reno, Nev., are promoting project for an electric road from this place to Hazen, 16 miles. The electric power would be developed from the Government irrigation canal near Fallon. Route is stated to be over level ground, two large bridges and several small ones, however, would have to be constructed.

LIGHT, HEAT AND POWER PLANTS.

BURLINGTON, VT.—Bellman & Sanford, 149 Broadway, N. Y., were awarded contract on Aug. 24 for installing complete electric light plant, at $26,860 We are informed by that firm that all apparatus and machinery is contracted for, excepting local labor, boiler setting, brickwork, piping and haulage.

NEEDHAM, MASS.—Charles River Power Co. has been incorporated with $50,000 capital. W. H. Burgess, Somerville, Mass., is Pres.

PENN YAN, N. Y.—Village has voted to spend $35,000 for establishing electric light system.

CORNING, N. Y.—Crystal City Gas Co. has incorporated with capital of $225,000. Directors: Benjamin W. Wellington, Geo. S. Goff and Wm. B. Hunt, of Corning.

JERSEY CITY, N. J.—Kneese Electric Co., capital stock $125,000, has been incorporated by E. J. Burt, Clyde Colt, William A. Meaking. Registered office, 186 Newark Ave., Jersey City.

FRANKLIN, PA.—Franklin Extended Electric Co. has been chartered with $20,000 capital. D. W. Klinefelter and O. C. Harris are interested.

LANCASTER, PA.—Leslie & Trinkle Co., Philadelphia, R. T. Griffith, vice-Pres., informs us that the Millstone Water & Power Co. will construct a plant here.

SCRANTON, PA.—Bids are asked until Sept. 12 by Board Control for installing central heating and electrical plant in power house on Adams Ave. and Gibson St. John J. Harris, M. E. Eugene D. Fellows, Secy.

TAMAQUA, PA.—Bids are asked until Oct. 4 by Town Council for lighting streets, avenues and highways with about 80 arc or brush lights; each light to be 2,000 c.-p., and to burn every night for a period of five, ten and 15 years, commencing Jan. 1, 1906. Bids will be also received for lighting town buildings and probably residences with incandescent lamps. W. F. Leopold, Secy.

WEST CHESTER, PA.—Land in Willistown Township has been purchased by the Philadelphia and West Chester Traction Co. on which will be erected a new power house, to cost $150,000, including machinery.

PITTSBURG, PA.—Maj. Wm. L. Sibert, Engrs., writes that bids were received for building a power house at Dam No. 2, Ohio River, on Sept. 2, as follows: Brady Construction Co., Fairmont, W. Va., $12,059; Baker & Egan, Pittsburg, $19,713; Elwood K. Hagy & Co., Pittsburg, $15,355.

PROVIDENCE, R. I.—Era Heating Co. has been incorporated with capital of $100,000; F. F. Taft, Geo. W. Parker and L. H. Wattles, all of Providence, are interested.

HARRISONBURG, VA.—Contract has been awarded to Lane Bros. & Co. for the construction of dam, raceway and wheel pit on the Shenandoah River for municipal electric light and power plant. Estimated cost, from $50,000 to $55,000. $60,000 of bonds is available.

MOOSE JAW, N. W. T.—W. T. Ashbridge, Resident Engr., writes that D. A. Dinnie & Co., of Minot, N. Dak., were awarded contract for power house, at $15,660. Building will be brick and concrete; brick chimney.

PARSONS, W. VA.—West Virginia Central Gas Co. has applied for charter to lay pipes and mains through the streets for supplying natural gas, it is reported.

SPARTANBURG, S. C.—Spartanburg Railway, Gas & Electric Co. will issue $400,000 in bonds for improvements, additions and extensions. F. M. Knox is Secy.

THOMSON, GA.—We are informed that contract for furnishing material and constructing electric light plant has been awarded to the Electric Supply Co., of Savanna Ga., at $9,500. W. R. Hadley, Clk. Council. Jos. B. Mc[illegible]ary, Engr., Senoia, Ga.

GRACEVILLE, FLA.—City probably will issue bonds for constructing water-works and erecting electric light plant. No contracts have been awarded.

FLORENCE, ALA.—Northern Alabama Gas Co. have been incorporated. Capital stock $150,000. Pipes will be run to Sheffield and Tuscumbia, but plant and principal office will be here. Clarence H. Geist, of Chicago, is Pres.; Charles B. Kelsey, of Grand Rapids, Mich., Secy. and Treas.

UTICA, MISS.—City may issue $20,000 of bonds for installing electric lights and water-works.

PURVIS, MISS.—Purvis Light & Power Co. has been organized here. W. H. Magee is Pres.; J. W. Woodyard, Vice-Pres. and Gen. Mgr, and C. V. Hathorne, Secy. and Treas. Electric light plant, water-works and ice plant are contemplated. Part of machinery for light plant has been ordered.

NEW ORLEANS, LA.—We are informed that Sewerage & Water Board has awarded contract for two gas producers to the Camden Iron Works, Camden, N. J., at $2,200 each.

CHATTANOOGA, TENN.—On Aug. 28 the 4-month time limit granted this city by the government for the building the proposed great power plant at Scott's Point, in the "suck" of the Tennessee River, expired. Congress passed the bill in April and it was approved by the President. C. W. Holbrook, Secy. Chattanooga Chamber of Commerce, wrote us that the bill grants the privilege of erecting the power plant, first to the city of Chattanooga, and should the city not undertake the work, or express its intention of so doing, within four months, then the privilege is granted to C. E. James, J. C. Guild and associates. Total cost will be about $2,000,000. W. H. Hall, a surveyor under Maj. Henry C. Newcomer, Engr.-in-Charge of the improvement of the Tennessee River, has begun preliminary surveys for the proposed lock and dam. J. C. Guild, C. E. James and associates are reported to have secured almost all of the amount of capital necessary to commence work.

NEWPORT, KY.—City may vote at fall election on $90,000 bond issue for erecting municipal electric light plant.

DAYTON, O.—Bids are asked until Sept. 23 by Dayton State Hospital for furnishing and erecting boilers, engines, dynamos, motors, switchboard, and equalizers at hospital. A. F. Shepherd, M. D., Secy.

TOLEDO, O.—$100,000 of natural gas refunding bonds have been sold.

SOUTH BEND, IND.—Indiana & Michigan Electric Co. probably will extend its transmission lines to Indianapolis, making that city a distributing center for cities in that section, that will include Louisville and Cincinnati. It is said extensive projects are under consideration.

WAYNE, MICH.—A special election will be held on Sept. 12 to vote upon proposition to issue bonds for establishing an electric light plant.

KALAMAZOO, MICH.—Arbuckle, Ryan & Co., of Toledo, O., and the Fort Wayne Electric Works will repair municipal lighting plants here.

LOCKPORT, ILL.—We are informed that bids were received on Aug. 31 for furnishing and installing turbines and governors at Lockport, Ill., as follows: (a) four power units; (b) two exciter units; (c) four power unit governors; (b) exciter unit governors. A—lowest bidder was the Stillwell, Bierce & Smith Vaile Co., Dayton, O., at $73,488; b—S. Morgan, Smith Co., York, Pa.; at $5,162; c—Wellman-Seaver-Morgan Co., Cleveland, O., at $4,948; d—S. Morgan Smith Co., at $1,250. The Stillwell, Bierce & Smith Vaile Co. was lowest bidder on total work at $85,894.

CHICAGO, ILL.—Seneca Electric Co. with $10,000 capital has been incorporated to operate an electric light, heat and power plant. Incorporators are C. C. Travis, C. F. Travis, R. E. Travis.

CHICAGO, ILL.—Bids are asked until Sept. 12 for the excavation, piling, masonry, carpentry, concrete floors, steel work, sewerage, cut stone, copper work, roofing, tile, painting and glazing, etc., to complete the City Electric Light Station at Fullerton Ave. and the Chicago River. F. W. Block, Com. Pub. Wks.; Wm. L. O'Connell, Deputy Comr.

WAUKEGAN, ILL.—The North Shore Electric Co., Samuel Insull, Pres., will erect a central power house on the lake front here to supply this region. Building will be about 125 x 214 ft. This company recently secured a franchise for Lake Bluff and is now running a line of poles to that point from North Chicago. A pole line also will be run to Libertyville.

HALLOCK, MINN.—Stinson Bros. have contract for building a gas plant for a private company. The company is capitalized at $15,000 and was organized by T. M. George, A. M. Eklund and Edward McVean. Mr. George is Pres.

FRAZEE, MINN.—A syndicate, composed of J. K. West and E. G. Holmes, of Detroit, and others, have secured title to a large tract of land near Detroit and seven miles north of Frazee on both sides of the Otter Tail river. A dam with a huge reservoir will be constructed. A commission has been appointed by district court to determine damage to all lands affected by the dam. Power is to be utilized to operate Detroit power plant and to supply other business houses.

CODY, WYO.—It is stated that a company financed by Denver and Eastern capitalists will soon undertake the construction of a plant at the falls of the Government dam being built on the Shoshone River. Power will be generated for a smelter, and will also be transmitted to the mines at Kirwin.

SANTA FE, N. MEX.—Local press reports quote H. B. Holt, an attorney of Las Vegas, N. Mex., as stating that Eastern capitalists are now seeking investment in the Mesilla Valley, with view to establishing a large central electrical power plant and establishing a colony.

ARGENTA, ARK.—City has under consideration the establishment of a water-works system and electric light plant.

FORT SMITH, ARK.—The Fort Smith Light & Traction Co. will make extensive improvements to its plant and railway system, it is reported. H. M. Syllesby & Co., New York Life Building, Chicago, Ill., are Engineers-in-Charge.

DENVER, COLO.—The Northern Colorado Light & Power Co. has been incorporated with a capital of $500,000. The company plans to furnish power to mines, and for lighting towns and furnishing power to street railways in towns in Routt and other counties traversed by the Moffat road. Rodney Curtis, Chas. M. Hobbs and Loren Curtis are Directors.

FORT COLLINS, COLO.—Poudre Valley Gas Co. has awarded contract for construction of a gas plant to Frank English, late of Boulder. Company is capitalized at $75,000. Building will be 32 x 72 ft., and will contain generator and purifier; gas storage tank will be 45 ft. in diameter and 20 ft. high. Contract calls for laying 6½ miles of gas mains and entire plant is to be completed and ready for operation by Jan. 1, 1905. James B. Arthur, Pres.; Frank P. Stover, Vice-Pres.; Frank English, Secy.

SALIDA, COLO.—Salida Light and Utility Co. has been incorporated. It is capitalized at $50,000. W. W. Roller, Jacob Seligman, Thomas Ryan and Ben Disman are interested. It is the intention of the company to harness the water of the Arkansas River to generate electricity for power purposes; also to light the different mining camps and towns of the county, and build and operate an electric line in the county for the transportation of ore and passengers.

NORTH YAKIMA, WASH.—W. Dunn, of Seattle, and Dr. Campbell have accepted the franchise granted them by Council to construct a gas plant in this city. Work on the plant will begin at once. A company will be organized.

SEATTLE, WASH.—Plans and specifications have been filed for construction of a sub-station for the municipal lighting and power plant, to be constructed at Seventh Ave. and Yesler Way. Cost, $22,000. Work on this building will start immediately. Foundation construction already is under progress.

ECHO, ORE.—Echo Water, Light & Power Co. has been incorporated, capitalized at $10,000. Company will construct reservoir on the hills above the town and pump the water into it from the Umatilla River. An electric power plant will be built.

LOS ANGELES, CAL.—The Southern California Electric Co. has incorporated with capital stock of $25,000, $5,000 subscribed. Directors are: F. W. Peschke, J. L. Ruberd, H. L. von der Kuhlen, J. C. Rendler and C. W. von der Kuhlen.

MOKELUMNE HILL, CAL.—It is reported that the Sierra Nevada Water & Power Co. will utilize the waters of the Mokelumne River, to generate electric power. About $20,000,000 may be expended. Company will transmit power to San Francisco, and also supply various cities in the San Joaquin Valley and the coast of central California. W. G. Clark, of Seattle, Wash., is Mgr. of Co.

JACKSON, CAL.—Press report states that the cast-iron pipe of the Standard Electric Co., San Francisco, Cal., has been blown out and will be replaced with steel pipe. Damage is estimated at about $30,000. Electric plant at Electra was also damaged.

VACAVILLE, CAL.—Construction of light and water plant to cost $35,000 and sewer system to cost $30,000 are under consideration.

ST. JOHN, N. B.—City may buy lighting station of the Carleton Electric Co. for $21,000.

CHILLIWACK, B. C.—Franchise of the Chilliwack Light & Power Co. has been approved and the company can now proceed with the construction of its extensive plant. Estimated cost, $100,000.

HULL, QUE.—E. Bisson, of Hull, was awarded contract for erection of power house at $13,670. Laying water pipe, Leon Bertrand, successful bidder, at $2,671; completion of present pump house, J. C. Clouthier, $2,305.

BRIDGES.

DALTON, MASS.—The selectmen have awarded the contracts for two iron bridges to the United Construction Co., of Albany, N. Y. The bridge at South St. is to be built for $3,400, and the cotton mill bridge for $1,975. Geo. W. Smith is Town Clerk.

WALTHAM, MASS.—Mayor Harvey has recommended a steel arch concrete bridge to be erected in place of the present unsafe structure, connecting South Waltham with Crescent Park, at a cost of $3,120.

BOSTON, MASS.—Bids are asked by the Massachusetts Highway Commission, until Sept. 15, for building a steel concrete bridge over the Ipswich River in Reading.

PITTSFIELD, MASS.—Finance Committee recommends that a union bridge be erected in conjunction with Pittsfield St. Ry. Co. It will cost $7,000.

PROVIDENCE, R. I.—Wooden bridge over South Main St. trench will be replaced by a steel and concrete structure. $5,000 remains of Globe bridge appropriation and a portion of this will be available.

ALBANY, N. Y.—Residents of the Seventh and Eighth Wards have taken preliminary steps toward petitioning for a viaduct over Van Woert St. from Colonie and Swan Sts. to Dudley Park. Edward Day is interested.

BUFFALO, N. Y.—Bids received Aug. 25 by the Department of Public Works for superstructure of a bascule bridge at Ohio St., over Buffalo River, are as follows: American Bridge Co., $149,500; Owego Bridge Co., $148,000; John P. Cowing, Cleveland, O., $161,000.

BUFFALO, N. Y.—The following bids were received for substructure of River St. bridge over slip No. 2: F. W. Knickenberg, 702 Michigan St., City, $6,150; F. H. Ley, $8,600; B. I. Crooker, $8,032; H. P. Burgard, $6,950; Bardot & Roberts, $6,671. Superstructure: American Bridge Co., $4,714, and $5,000; King Bridge Co., $4,550; Buffalo Structural Steel Co., $5,011 and $5,276.

CLAYTON, N. Y.—The Town Board has awarded the contract to build an iron bridge at French Creek to the Canton Bridge Co., at $24,000. The new bridge will be 466 ft. long and allow a space underneath of 16 ft. above high water. There will be a 16-ft. roadway and a sidewalk on the river side 5 ft. wide. The bridge will be supported by stone foundations on which will rest towers 45 ft. high.

SODUS, N. Y.—The State Legislature has appropriated $9,000 toward the construction of a new steel bridge across the head of Sodus Bay.

BINGHAMTON, N. Y.—S. M. Baird, Engineer, is preparing plans and the city will shortly ask for bids on the strengthening of the Tompskins St. bridge. Plans call for the addition of a number of uprights, amounting in expense to several thousand dollars.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

PASSAIC, N. J.—F. R. Long & Co., lowest bidders for the bridge across the Passaic River, have been released from their contract on the grounds that the price of bridge materials has advanced considerably since the contract was let, several months ago. Edward N. Klevit, Garden St., is Director of Board of Freeholders.

SALEM, N. J.—Bids are asked by the Board of Chosen Freeholders of Salem County, until Sept. 14, for building a steel bridge over Muddy Run. John F. Ayers, Dir. (Advertised, Engineering News.)

PASSAIC, N. J.—Bids are asked by a joint committee of Passaic and Bergen Counties, until Sept. 12, at Emmon's Hotel, City, for building a new drawbridge across the Passaic River, at Gregory Ave. E. N. Kevitt, Chn. Passaic County Com.; A. Kruger, Chn. Bergen County Com.

BERWICK, PA.—The Lackawanna Railroad has agreed to contribute $6,000 to the building of the new Berwick-Nescopeck bridge.

SAFE HARBOR, PA.—The Board of Public Buildings and Grounds at Harrisburg has awarded the contract for the erection of the bridge crossing the Conestoga Creek at Safe Harbor, to the Eyre Construction Co. for $69,987, and for the Brookville bridge over the Red Bank Creek in Juniata County to the Penn Bridge Co. for $59,983.

HARRISBURG, PA.—Bids are asked by Board of Public Buildings and Grounds until Sept. 20 for rebuilding substructure and superstructure of highway bridge over Mahoning creek, near Stuartson Furnace. John E. Stott, Secy. of Brd.

READING, PA.—The wooden bridge on the Reading Railway near Port Clinton will be replaced by a steel structure. The company is having the plans prepared.

ZELIENOPLE, PA.—It is reported that the Nelson & Buchanan Co., of Chambersburg, received the contract to construct a 160-ft. bridge below Zelienople, at about $30,000.

SCRANTON, PA.—The D. L. & W. Ry. Co. is to build one of the largest bridges on its system in this city. It will replace the present stone bridge. The plans are being prepared, and work will be started early in the spring.

BUTLER, PA.—The Pittsburg, Bessemer & Lake Erie R. R. has awarded the contract for building a steel girder bridge over Third St. to the McClintic-Marshall Construction Co., of Pittsburg.

WILLIAMSPORT, MD.—P. J. Courtenay, of Philadelphia, Pa., is working on a proposition to build a $75,000 bridge over the Potomac River.

RICHWOOD, W. VA.—Bids are asked by the Committee of County Court at Summersville until Sept. 17 for construction of steel bridge, abutments and fills over Cherry river at Richwood; bids for steel work and approaches to be submitted separately; total cost not to exceed $4,000. L. C. Williams and J. O. Thomas, Com.

NEW ORLEANS, LA.—Plans and specifications for the viaduct in Algiers have been completed by the City Engineer, and bids will soon be advertised for. Advertisement for bidders will appear in the Engineering News.

BENHAM, LA.—The contract for a 400-ft. bridge over Bayou Macon at Lauer Ferry has been awarded to M. S. Hasie, Jr., Gaston Bldg., Dallas, Tex., for $5,690.

CLEVELAND, O.—Bids are asked by Cuyahogo County Commissioners until Sept. 21 for the construction of steel bridges and stone and concrete masonry. Specifications furnished by Wm. H. Evers, County Surveyor. Julius C. Dom, Clk.

TOLEDO, O.—Bonds will soon be issued for $65,000 to repair bridges and erect new ones.

YOUNGSTOWN, O.—The Pittsburg & Lake Erie Railroad Co. will erect at East Youngstown a steel bridge 878 ft. long over railroad tracks and streets into the plant of the Youngstown Iron Sheet & Tube Co.

LEWISBURG, IND.—The contract for building a new bridge here for the Big Four Railway has been awarded to Williams Bros. & Morse, of Cleveland, O. Cost, $25,000.

INDIANAPOLIS, IND.—Bids are asked by County Commissioners until Sept. 27 for constructing a bridge over White River at Morris St., to be 531 ft. long, and consist of five spans. Cyrus J. Clark, County Audr.

INDIANAPOLIS, IND.—E. M. Graves is reported to have received the contract to erect a concrete and steel melan arch bridge at Northwestern Ave. at $44,848.

TERRE HAUTE, IND.—The Cleveland Cincinnati, Chicago & St. Louis Ry. Co. has awarded to the Foundation Co., 35 Nassau St., New York, the contract for building pneumatic caisson foundations for a bridge across the Wabash River at this place. G. W. Kittredge, of Cincinnati, O., is Chief Engineer of railway.

TERRE HAUTE, IND.—The County Commissioners have let the following bridge contracts: Jenckes arch, Fulmer arch and Meneely arch, to Fred C. Meredith, at $4,300, $2,200 and $4,500 respectively; Wood's steel bridge, approaches to Hoffman bridge, and approaches to O'Connell bridge, let to F. F. Meneely for $1,700, $775 and $1,439 respectively.

CHICAGO, ILL.—Council will pass upon $5,000,000 appropriation for public work, for which $1,131,000 is estimated allowance for new bridges and for completion of work now under way. Four bascule bridges will be erected; at Halstead St. (canal), Chicago Ave., Archer Ave., and North Ave. It is said that a bridge to cost $125,000 will be constructed from foot of Michigan Ave. boulevard over Chicago River.

GREEN BAY, WIS.—The Common Council has authorized the Committee on Streets and Bridges to advertise for proposals for the construction of a bridge across East River at Webster Ave.

RACINE, WIS.—A special meeting of the Common Council was held Aug. 23, and the aldermen decided to have the people vote on a $60,000 bond issue, the money to be used in building of a lift bridge across the river at Main St.

DES MOINES, IA.—Reports state that the Inter-Urban Ry. Co., H. H. Polk, Pres., 607 Mulberry St., is preparing to construct a 4-span steel bridge across Des Moines River, to cost about $50,000.

ST. PAUL, MINN.—The resolution from the Board of Aldermen directing that bids be called for building a new bridge at the intersection of Payne Ave. and Beaumont St. was passed by the assembly.

WICHITA, KAN.—At the regular meeting of the County Commissioners the board announced their intention of appropriating $4,500 for the building of four new bridges in Sedgwick County. Of this amount $2,000 will be used for the building of a bridge across the Arkansas River at or between 18th or 21st Sts.

NEBRASKA CITY, NEB.—Bids are asked by County Commissioners until Sept. 20 for constructing a 100-ft. span bridge one mile east of Talmage, a 70-ft. span bridge at Douglas, and a 50-ft. span bridge at Berlin. Chas. H. Busch, County Clk.

ST. PAUL, MINN.—A storm carried away a 200-ft. span of the high bridge about 300 ft. from the west end.

FARGO, N. DAK.—Bids are asked by Arthur G. Lewis, Audr., Cass County, until Sept. 26 for construction of two 16-ft. bridges. Plans and specifications on file.

JAMESTOWN, N. DAK.—The Fargo (N. Dak.) Bridge & Iron Co. was the lowest bidder, at $1,440, for constructing two iron bridges across Ripestem River. Andrew Blewett is County Auditor.

KANSAS CITY, MO.—Plans for the viaduct over Lydia Ave. at the Missouri Pacific and Chicago & Alton Railroad crossings were formally adopted at a meeting of engineers for the city, the two railroads and the Metropolitan Street Ry. Co. Cost, $73,000. D. W. Pike is City Engineer.

BEAUMONT, TEX.—G. O. Hawkes, Supt. Texas & New Orleans R. R. Co., has submitted to the Council plans and specifications for a new steel viaduct to cross the right of way of the company between the new depot and roundhouse.

LA JUNTA, COLO.—The contract for constructing a bridge over the Arkansas River here was awarded to the Pueblo (Colo.) Bridge Co. for $7,823, to be completed Dec. 1. L. G. Carpenter, of Denver, is State Engineer.

PUEBLO, COLO.—The following bids were received Aug. 22 for constructing the Main St. viaduct: Missouri Valley Bridge & Iron Co., 2 bids, $99,975 and $82,000; M. J. Patterson, $79,000; Pueblo Bridge Co., Pueblo, 4 bids, $97,460, $80,250, $74,860 and $62,000; Midland Bridge Co., 2 bids, $90,000 and $79,900; Trenton Bridge Co., 2 bids, $105,000 and $84,000; American Bridge Co., $86,700.

KALAMA, WASH.—The County Surveyor was instructed by the Commissioners to at once prepare plans for the bridge to be built across the Toutle River, known as the Manns bridge.

ASOTIN, WASH.—The City Council is contemplating the building of a new bridge across Asotin creek, at the head of Second St.

CONCONULLY, WASH.—Bids are asked by Okanogan County Commissioners until Oct. 4 for construction of a bridge across the Okanogan River, at Riverside. F. M. Willmarth, County Audr.

SPRINGFIELD, ORE.—It is reported that the Southern Pacific R. R. Co. will build a bridge here. W. Hood, of San Francisco, is Chief Engineer.

PORTLAND, ORE.—The Lewis & Clark management has decided to award the contract for building the bridge from the main grounds to the Government exhibit on Guild's Lake to the Portland Bridge Co. The bridge will cost approximately $27,500.

EUGENE, ORE.—Street committee recommended to the Council that both the Eighth and Ninth St. bridges spanning the mill race be rebuilt. Report adopted.

LOS ANGELES, CAL.—The City Council has instructed the city engineer to prepare plans and specifications for putting in concrete foundations under First St. bridge, and bids will soon be asked.

MOSCOW, IDAHO.—Bids are asked by Latah County Commissioners until Sept. 14 for construction of a bridge across Middle Potlatch creek at Juliaetta. Plans and specifications on file in office of Alex. P. Ramstedt, County Clk.

BATTLEFORD, SASK.—It is reported that the Canada Foundry Co. has received the contract to build a bridge across the North Saskatchewan River. The bridge will consist of 11 spans, and the total length of the steel superstructure, not including approaches, will be approximately 1,870 ft.

BUILDINGS.

BOSTON, MASS.—J. A. Schweinfurth, 53 State St., will be ready for bids soon for a primary school building, to be erected in Roxbury. Cost, $125,000. French & Hubbard, Albany Bldg., are Steam and Electric Engrs.

Bids were received by Maj. John E. Baxter, Q.-M., for constructing public buildings at Fort Andrews, Boston Harbor, Mass., as follows: Entire construction: C. E. Currier, Boston, $137,039; E. L. Sampson, Plymouth, $150,546; Angus McDonald, Boston, $151,390.

Bids are asked until 12 m., Sept. 8, for electrical work in new school on Southern Ave., Dorchester. Parke & Thomas, Archs. French & Hubbard, Engrs. R. Clipston Sturgis, Comr.

SALEM, MASS.—Council has appropriated $2,000 and will receive competitive plans for a new high school building that will cost about $200,000. Address John N. Perkins, Supt. of Schools.

SPRINGFIELD, MASS.—Bids are asked until Sept. 10 by City Property Committee for erecting school on White St. Separate bids will be received for ventilating, heating and plumbing. E. C. & G. C. Gardner, Archs., 33 Lyman St.

SOMERVILLE, MASS.—Bids will be asked about Oct. 1 for erecting an 8-room school building, according to plans of Aaron H. Gould, Arch. Walter T. Littlefield, Comr. of Pub. Bldgs.

BROOKLYN, N. Y.—Bids opened on Aug. 29 by C. B. J. Snyder, Supt. School Bldgs., for general construction of addition to and alterations in school No. 103, Brooklyn Boro., are reported as follows: George Hildebrand, $169,400; Chas. H. Peckworth, $172,975; F. J. Kelly's Sons, $169,700; William Werner, $173,429; Richard E. Heningham, $167,755. John Auer & Sons, 957 Broadway, was awarded contract at $167,500.

NEW YORK, N. Y.—Bids are asked until Sept. 12 for addition to and alterations in public school 32, 357 West 35th St., Boro. Manhattan. Also for furniture for additions to public schools 22, 37, 53 and 54, Boro. Queens. C. B. J. Snyder, Supt. Bldgs. Bd. Education.

Bids are asked until Sept. 13 for making repairs and alterations to the several armories of the organizations of the N. G., N. Y., in Boroughs of Manhattan, Brooklyn and Queens, as follows: No. 1, Squadron "A" armory; No. 2, armories of the Eighth Regiment, Twelfth Regiment, 22d Regiment, Squadron "A," in Manhattan; 14th Regiment and 23d Regiment, in Brooklyn; 17th Separate Company, in Queens. George B. McClellan, Mayor; Charles V. Fornes, Pres. Bd. of Aldermen.

NEW YORK, N. Y.—Bids are asked until Sept. 16 for building a third-story addition to the inner end of building on pier "A," N. R., and for making alterations and repairs to present building incidental thereto. Maurice Featherstone, Comr. Docks.

Bids are asked until Sept. 19 by C. B. J. Snyder, Supt. School Bldgs., for various work in schools in Brooklyn and Manhattan Boros.

NEW YORK, N. Y.—Charles T. Wills, 156 Fifth Ave., has general contract for the $250,000 chapel for Columbia University, that will be erected on Amsterdam Ave., north of 116th St. Howells & Stokes, 100 William St., associated with McKim, Mead & White, 160 Fifth Ave., are the Archs. Particulars were given in issue of Sept. 1.

A. J. Robinson Co., 123 East 23d St., has general contract for School of Mines for Columbia University, to be erected on Broadway, north of 116th St. Four stories, with basement and sub-basement, 145 × 57 ft., fireproof, Harvard brick copper roof. Cost, $250,000. Arnold W. Brunner, of 33 Union Sq., is Arch.

ITHACA, N. Y.—Board Supervisors Committee that was appointed to consider county buildings has decided in favor of erecting a new building, to cost $200,000.

NEW YORK, N. Y.—Plans have been filed by Neville & Bagge, Archs., 217 West 125th St., for seven 4-story brick dwellings, 20 × 54 ft., on 141st St., east of Amsterdam Ave., for G. L. Lawrence, 178 Franklin St. Cost, $109,000.

By same Architects, for a 5-story brick flat, 50 × 89 ft., on 146th St., west of Amsterdam Ave., for C. R. McLaughlin, 21 West 125th St.

By B. E. Stern, Arch., 160 Fifth Ave., for a 5-story brick tenement, 35 × 104 ft., on Crotona Ave. and 170th St., for Elias A. Goldstein, 121 St. John's Place, Brooklyn. Cost, $50,000.

By G. Keisler, 11 West 29th St., Arch., for a 6-story brick flat, 53 × 86 ft., at 515 West 124th St., for J. O'Brien and another, 647 Sixth Ave. Cost, $65,000.

By Sass & Smallheiser, Archs., for four 6-story brick flats and stores, 39 × 86 ft., at 211-229 East 33d St., for H. & E. Moran, 233 Henry St. Cost, $80,000.

By Neville & Bagge, Archs., for a 5-story brick flat, 50 × 87 ft., on 138th St., west of Broadway, for Dallas Realty & Construction Co., 621 West 57th St. Cost, $50,000.

By Neville & Bagge, Archs., for three 6-story brick flats, 41 × 86 ft., on 158th St., east of Broadway, for David Cohn, 117 East 127th St. Cost, $120,000.

By G. F. Pelham, Arch., 503 Fifth Ave., for four 6-story brick flats, 210 × 80 ft., on Ninth St., east of Ave. D, for Geo. J. Kelem, 430 East Houston St. Cost, $164,000.

By C. P. N. Gilbert, Arch., 1123 Broadway, for an 11-story store and office building, 49 × 125 ft., corner Fifth Ave. and 39th St., for Horace A. Hutchins, Madison, N. J. Cost, $250,000.

By Howells & Stokes, 100 William St., Archs., for a 1-story brick church, 58 × 141 ft., on Amsterdam Ave., north of 116th St., for Columbia College. Cost, $250,000.

JERSEY CITY, N. J.—Union Terminal Cold Storage Co. has been incorporated, with capital of $250,000, by Addison C. Ormsbee, Francis Dana and Mahlon R. Dayton.

PHILADELPHIA, PA.—It is reported that plans are being prepared by Peabody & Stearns, of Boston, for a country residence for Dr. Geo. Woodward, to be erected on McCallum St., Chestnut Hill. Estimated cost, $500,000.

Plans for manual training school at Broad and Jackson Sts., South Philadelphia, are being prepared by J. Horace Cook, Arch., Bd. of Education. Cost, $320,000.

Same architect is said to be preparing plans for girls' commercial high school, at Broad and Green Sts., for city. It would be three stories, of stone, brick, granite and steel, fireproof floors, steam heat and ventilating, concrete foundations, electric fixtures, elevator, hard plaster. Cost, $350,000.

PITTSBURG, PA.—Jas. Corcoran, of Pittsburg, has contract for foundations for the proposed freight depot to be erected by Wabash-Pittsburg Terminal Co., at Liberty Ave. and Ferry St. Cost, about $75,000.

It is reported that a 6-story brick and terra-cotta apartment house, 103 × 120 ft., will be erected at Forbes and Miltenberger Sts., by Mrs. Mary McTighe. Est. cost, $150,000.

PITTSBURG, PA.—Grant McCargo, of the Pennsylvania Lubricating Co., W. L. Abbott and James Park, of Pittsburg, have had plans prepared, and will erect modern hotel, 110 × 240 ft., at Penn Ave. and 10th St. It will contain 300 rooms.

James Jones, of Pittsburg & Buffalo Co., Frick Bldg., City, has plans for modern store and flat building, 100 × 100 ft., at Second Ave and Tecumseh St. Cost, $50,000.

D. M. Fair & Sons, City, were awarded contract for erection of 100 dwelling-houses for the H. C. Frick Coke Co., in Fayette County, Pa. Cost, $125,000.

Ingraham & Gibson, Uniontown, Pa., were awarded contract for erection of 100 dwelling-houses for the H. C. Frick Coke Co., in Fayette County, Pa. Cost, $125,000.

HOMESTEAD, PA.—T. J. Keenan, Chas. W. Houston, Dr. J. O. Flower, of Pittsburg, and B. Harding, Edgewood, Pa., have formed the Homestead Amusement Co. They will erect amusement and lecture hall, to cost $50,000.

BRADDOCK, PA.—It is reported that the Henry Shenk Co., of Pittsburg, has contract for erecting building for National Bank of Braddock. Cost, $200,000.

YORK, PA.—P. C. Weist, of York, will erect a model village, each dwelling to be erected on a site to contain about seven acres, it is reported.

SYKESVILLE, PA.—The Cascade Coal & Coke Co. contemplates the erection of 50 frame miner's double residences. Cost, $1,200 each.

CHELTENHAM, PA.—Commisioners have invited architects to prepare designs for a $50,000 high school.

TITUSVILLE, PA.—City will vote in November upon question of issuing $75,000 of bonds for new high school building.

DELAWARE CITY, DEL.—Bids are asked until Sept. 26 for constructing and plumbing one Q.-M. stables, one wagon shed and addition to coal shed at Fort Mott, N. J. Capt. Louis F. Garrard, Jr., Q.-M. (Advertised, Engineering News.)

WASHINGTON, D. C.—Sub-bids are asked until Sept. 12 by Cramp & Co., Philadelphia, for building for the Bureau of Printing and Engraving. Two stories, 55 × 520 ft., brick and limestone, terra-cotta trimmings. Cost, about $75,000.

Same builders have also plans for additions to the barracks for the Marine Corps, to include a gymnasium, mess hall, band-room, kitchens and a number of other rooms.

Bids are asked until Sept. 12 for constructing additions including band-room, mess hall, men's kitchen and men's gymnasium. Col. F. L. Denny is Q.-M., U. S. Marine Corps.

It is stated that plans are nearly completed for new Industrial Home School for Colored Children, to be erected at Blue Plains, D. C. Snowden Ashford is Bldg. Inspector.

Bids are asked until Sept. 13 at Bureau Supplies and Accounts, Navy Dept., Washington for furnishing all terra-cotta work required for erecting building No. 118, navy yard here. H. T. B. Harris, Paymaster-Gen., U. S. N.

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Bids are asked until Oct. 1 by Bernard R. Gr upt. of Construction, Office of the Bldg. for National um, Library of Congress, for furnishing and deliv all cut granite required for front and court walls, ve of south pavilion, of the new building for al Museum.

Bids are asked by James Knox Taylor, Superv ch., Treas. Bldg., until Nov. 2 for a mechanical v ng apparatus and changes in connection therewith the U. S. Treasury Building. (Advertised, Engineerin s.)

ANNAPOLIS, MD.—Bids are asked by Navy rtment, Washington, D. C. until Sept. 15 for hospit ding at Naval Academy. A set of drawings may obtained at office of Ernest Flagg, Arch., 35 Wall w York, by depositing $15, $10 of which will be refu on their return. Chas. H. Darling, Act.-Secy.

BALTIMORE, MD.—Henry Smith & Sons Co. h ntract for 1-story banking building, 50 × 125 ft., Mechanics' National Bank, at South and German Sts. e, brick and steel, fireproof, steam heat, electric light t, $100,000. Taylor & Knowles are Archs., 11½ East ant St.

George Gunther, 2102 East Baltimore St., has aw ded contract to Henry Smith & Sons Co., 116 South R er St., for construction of office building at St. Pau d Fayette Sts. Simonson & Pietsch are Archs., Hoen B ding, Lexington and North Sts. It is reported that b ding will be eight stories, with basement, 30 × 88 ft uff brick with granite base and terra-cotta trimmings, dford limestone to second story, concrete foundation, steel beams and girders, cast-iron columns, pavement lights, galvanized iron skylight, electric wiring and fixtures, sanitary plumbing, steam-heating system, power elevator. Heating system, elevator and electrical work not included in contract.

Merchants & Miners' Transportation Co., 604 North Charles St., has awarded contract to Edward Brady & Son, 1109 Cathedral St., for construction of office building at Light and German Sts. Charles E. Cassell & Son, Archs., 411 North Charles St. Four stories, with basement, 74 × 74 ft., brick with terra-cotta trimmings, concrete foundation, steel beams and girders, cast-iron columns, power elevators. Cost, about $60,000.

Geo. A. Fuller Co., 203 North St., has been awarded contract by Allan McLane, receiver for the Maryland Trust Co., Maryland Telephone Bldg., for the reconstruction of its office building at Calvert and German Sts. Baldwin & Pennington, Archs., 311 North Charles St. Building is ten stories high, with basement, steel frame, fireproof construction, electric wiring and fixtures.

RICHMOND, VA.—Contract for fireproofing and additions to the State Capitol was awarded to W. A. Chesterman, City, at $57,000. Noland & Baskerville are Archs.

CHARLESTON, W. VA.—Charleston Development Co., care of F. D. Grosscup, contemplates the erection of 1,000 frame dwelling houses.

SUTTON, W. VA.—Bids are asked until Sept. 21 (readvertisement) by Board County Commissioners for erecting jail and sheriff's residence here. Holmboe & Lafferty, Archs., Clarksburg. E. W. Hefner, County Clk.

NEW MARTINSVILLE, W. VA.—Commissioners of Wetzel County contemplate erecting new county infirmary.

ATLANTA, GA.—Masonic Temple Co. has appointed Hoke Smith, John R. Wilkinson and others a committee to confer with Thomas Morgan, Arch., regarding plans and specifications for the erection of temple building.

NEWMAN, GA.—J. W. Golucke & Co., Atlanta, Ga., are architects for proposed court-house. Cost, about $80,000. W. L. Stallings, Clk.

ATHENS, GA.—J. W. Golucke & Co., 408 Temple Court, Atlanta, have prepared plans for a 6-story modern hotel, for the Athens Hotel Co. Fireproof, buff brick, terra-cotta and stone. It probably will be built by day work. Cost, $100,000. Address H. J. Rowe, Athens.

DAYTONA, FLA.—Florida East Coast Ry. Co. will erect a hotel here, to cost $650,000, it is reported. An electric light plant is to be erected to furnish lights to the building and grounds. J. R. Parrott, Vice-Pres. and Gen. Mgr., St. Augustine, Fla.

NEW ORLEANS, LA.—Board of Trade, Fred Muller, Secy., recently sold its office building for $60,000, and will use the money for making extensive improvements to its Exchange building, it is reported.

Bids are asked by Bureau of Yards and Docks, Navy Dept., Washington, until Oct. 8, for constructing a brick and steel building, about 62 × 202 ft., at Naval Station. Mordecai T. Endicott, Ch.

ALEXANDRIA, LA.—Bids are asked by W. W. Whittington, Jr., Secy. Bd. Administrators, Louisiana Hospital for Insane, until Sept. 24, for construction of two 3-story brick main buildings, 36 × 180 ft., and one 3-story brick water closet, 16 × 30 ft.

NEW ORLEANS, LA.—Nearly $100,000 has been subscribed for proposed new Touro Infirmary Hospital. Rev. I. L. Leucht, Chn., P. O. Box 434, may be addressed.

Louis P. Rice will erect a 7-story commercial building. Cost, about $150,000.

NEW ORLEANS, LA.—Council will purchase site for $65,000 for proposed Carnegie library. Steps will be taken toward erection of library.

JACKSON, MISS.—Bids are asked until Sept. 26 for erecting new buildings at Institution for the Deaf and Dumb. J. R. Dobyns, Secy. of Bd. Comn., may be addressed for particulars.

MERIDIAN, MISS.—C. C. Harvey, Pres. New Orleans & Northeastern Ry. Co., New Orleans, writes that plans for proposed union station here have not as yet been prepared.

PADUCAH, KY.—Bids are asked by Board of Public Works, S. A. Fowler, Secy., until Sept. 16 for erection of market-house building. William L. Brainard, Arch. Building will be 330 × 35 ft., brick columns and sides; white glazed inside; buff or red pressed brick outside. Cost, $25,000.

COLUMBUS, O.—Bids are asked until Sept. 15 by trustees of Ohio State University for erection of a building for School of Mines. Frank L. Packard, Arch., New Hayden Bldg. Alexis Cope, Secy.

SULPHUR SPRINGS, O.—It is reported that the Bahai Honda Land Co. is contemplating the erection of a $100,000 hotel here. W. H. Park, of Youngstown, is reported interested.

MAGNETIC SPRINGS, O.—W. T. Mills, Arch., 233 North High St., Columbus, will prepare plans for a hotel for the Magnetic Springs Hotel Co., at Magnetic Springs. It will contain 200 rooms, bath-house, power-house, water tower, probably steel pavilion, it is said. Cost, about $200,000.

TOLEDO, O.—Government has purchased site at $135,000 for new government building.

INDIANAPOLIS, IND.—All bids for the installation of a heating plant in the Shortridge High School, at North and Pennsylvania Sts., have been rejected. Bids will be readvertised. John E. Cleland is Dir. Bd. School Comrs. Vonnegut & Bohn, Archs.

GRAND RAPIDS, MICH.—$200,000 bonding plan for new schools may be bought up by Board of Education again.

ST. JOSEPH, MICH.—Charles H. Sercombe, of Chicago, representing a syndicate of capitalists, has been negotiating for a site for a $1,000,000 university along the banks of the St. Joseph River. The institution will require a site of 1,000 acres. It is said that Mr. Sercombe has secured options on necessary land.

BELLAIRE, MICH.—Bids are asked by Frank A. Dinsmore, County Clk., until Sept. 15 for erection of a court-house and county building for Antrim County. Jens C. Petersen, Arch., 209 State Bank Bldg., Traverse City, Mich.

CHICAGO, ILL.—Majestic theatre and office building will be erected at 71 to 75 Monroe St. It will be a 20-story office building, 82 × 60 × 260 ft.; theatre is to be in the rear of the property, 152 × 82 ft. It will have a seating capacity of 2,025. Probable cost, $1,000,000. Edw. R. Krause, Arch., 100 Washington St., may be addressed.

CHICAGO, ILL.—Bids are asked by Board of Education, 730 Tribune Bldg., until 3 p. m., Sept. 9 (change of date), for the following school work: New school building, at 71st and Loomis Sts. Masonry, cut stone, sheet metal and tile roofing, composition roofing, structural iron, iron stairs, wire guards, carpentry, painting and finishing, glass and glazing, fireproofing, lathing and plastering, concrete floors, asphalt floors, etc., tile floors, telephones and bells, window shades, steam heating, heat regulation, ventilation, plumbing and gas-fitting, sewerage, electrical work. McKinley High School: Finishing running track, cork carpet, etc. Wendell Phillips High School: Finishing running track, cork carpet, etc. R. B. Williamson, Act.-Arch. T. J. Waters, Co. Engr.

James K. Sebree, Pres. Saratoga European Hotel & Restaurant Co., 159 Dearborn St., will build a 17-story hotel, to cost $1,000,000, at 151 and 152 Dearborn St. when lease on the property now held by John R. Thompson expires. He also will build a 10-story add'tion to the present Saratoga Hotel as soon as he can arrange for the absolute control of the property, and will connect the two buildings by covered passageways across the narrow alley which will separate them. The hotel will contain 400 rooms.

W. J. Brinkman, Arch., 163 Randolph St., has plans for group of buildings to be known as Home of Good Shepherd, to be built on block bounded by Grace and Byron Sts. and Seminary and Racine Aves. for the Sisters of Mercy. Bids will be received for a 2-story building, 100 × 130 ft., brick and stone, with a detached power-house 50 × 100 ft.; steam heating and electric lighting. Other buildings of the group will consist of a convent, chapel and two work-rooms. Bids on power-house will be received soon, and on the other buildings later, one at a time. The Home will cost about $350,000. Previously reported.

A. W. Rhodes, of Los Angeles, Cal., has purchased property at 343 and 344 Michigan Ave. Plans will be drawn for a 10-story office building, to cost $350,000, that will be erected on that site. Alvin Blakey & Co. are the representatives of Mr. Rhodes.

STERLING, ILL.—Congregation of Fourth St. M. E. Church will erect a new church. Probable cost, $60,000. Henry B. Wheelock, 109 Randolph St., Chicago, is Arch.

SULLIVAN, ILL.—Contract to erect court-house has been awarded to H. B. Walters, of Danville, at $67,952.

FOND DU LAC, WIS.—Bids are asked by Treasury Dept., Washington, D. C., until Oct. 12 for construction (including plumbing, heating apparatus, electric wiring and conduits) of post-office here. James Knox Taylor, Supervising Arch.

GREEN BAY, WIS.—An additional appropriation of $25,000 for the federal building is to be asked. This would make entire appropriation $165,000. F. A. Hollman is Postmaster.

FORT LEAVENWORTH, KAN.—Bids are asked until Sept. 17 for installing steam-heating plants in eleven sets of officers' quarters at Fort Leavenworth. Maj. D. E. McCarthy, Q.-M.

Bids are asked until Sept. 29 for construction of three double sets of lieutenants' quarters, including plumbing, heating and electric wiring, at Fort Leavenworth. Maj. D. E. McCarthy, Q.-M.

FORT ROBINSON, NEB.—Bids are asked by Lieut.-Col. J. E. Sawyer, C. Q.-M., Omaha, until Sept. 21 for remodeling the hospital at Fort Robinson into a post exchange building.

FORT ASSINNIBOINE, MONT.—Bids are asked until Sept. 19 for constructing a brick guard-house, brick N. C. S. O. quarters, brick stable for field, staff and band, three brick cavalry stable guard buildings, and one frame coal shed of 600 tons capacity. Capt. J. B. McDonald, Con. Q.-M. (Advertised, Engineering News.)

YANKTON, S. DAK.—Bids are asked by C. W. Lay, Secy., until Sept. 23 for erection of a library building. Patton & Miller, Archs., Hartford Bldg., Chicago, Ill.

BUTTE, MONT.—L. W. Hill, Vice-Pres. Great Northern, states, according to press reports, that that road and the Northern Pacific will erect union depot to cost, including necessary improvements to the terminal facilities, about $200,000. A. H. Hoagland, Ch. Engr., Gt. Northern Ry., St. Paul, Minn.

MOBERLY, MO.—Lowest bid for construction (including plumbing, heating apparatus, electric wiring and conduits) of the post-office here, was submitted by George E. Hopper, Arkansas City, Kan., $35,000; time as specified.

WYNNE, ARK.—Bids are asked by John Graham, Chn. Bd. Building Comrs., until Sept. 27 for erection of a county court-house. Bruce Architectural Co., Birmingham, Ala., Arch.

GALVESTON, TEX.—C. W. Bulger, Arch., is reported preparing plans and specifications for store building to be erected for the Fellman Dry Goods Co. Structure will be 43 × 120 ft.; five stories, light-colored brick, steel beams and girders, elevators, etc. Estimated cost, $40,000.

GAINESVILLE, TEX.—F. L. Stevenson, of Dallas, Tex., has secured contract for erection of post-office building here. Cost, about $80,000.

TAYLOR, TEX.—Bids are asked until Sept. 13 for erecting a city hall. S. F. Evans, Chn. Com.

SEATTLE, WASH.—The American Bank & Trust Co. will erect a steel and stone building, 120 × 120 ft., probably 14 stories high. Cost, about $500,000.

A 10-sty steel frame building is to be erected by Seattle physicians at a cost of $300,000. E. W. Foster, it is reported, is interested. Work will begin within three months.

PORT TOWNSEND, WASH.—Geo. H. Penrose, Q.-M., informs us that Hurley & Co., St. Paul, Minn., are lowest bidders, at $21,678, for entire work of installing hot water heating plants in two barrack buildings, two double sets officers' quarters, and four single sets officers' quarters, and constructing boiler rooms for same, at Fort Flagler, Wash.

LOS ANGELES, CAL.—Bids are asked until Sept. 26 for erection and completion of a 2-story brick addition to insane ward at the County Hospital, on Mission Road. Hudson & Munsell, Archs., 415 Stimson Block. C. G. Keyes, County Clk.

SAN FRANCISCO, CAL.—Pope Estate Co. will build a 6-story hotel on Market St., near Drumm St. Cost, $125,000.

Mrs. E. F. Butler will erect an 8-story fireproof structure at Geary and Stockton Sts., to cost at least $700,000. Reid Bros. are the Archs.

D. L. Randolph is to erect a 6-story hotel building on Mason St., near O'Farrell St. Cost, $100,000.

LOS ANGELES, CAL.—The Majestic Building Co. has been incorporated. Company will build $300,000 7-story, fireproof hotel and theater building on Broadway, between Sixth and Seventh Sts. It is proposed to begin work this month. Oliver Moresco is to be the lessee. Owners of the property on which the lease is given are Dr. John R. Haynes, Harry Chandler, L. J. Christopher and N. Bonfilio. Company is incorporated at $500,000. A. F. Rosenheim is the Arch.

Six-story steel frame construction brick building will be erected by M. J. Connell, on Spring St., between Sixth and Seventh Sts. Plans are now being prepared by Train and Williams. Cost, between $60,000 and $100,000.

Mrs. E. H. Peery is to build a 7-story hotel on Olive St., between Fourth and Fifth Sts. Brick; will contain 155 rooms and about 40 private baths. There will be a roof garden. Cost, about $75,000.

MOHAVE CITY, ARIZ.—Bids are asked by U. S. Indian School for furnishing and delivering at the school as required during the fiscal year ending June 30, 1905, about 12,300 ft. lumber, 30,000 shingles, 1,000 lath, ten barrels lime, ten barrels cement. For further information apply to Duncan D. McArthur, Supt. No date is specified.

OTTAWA, ONT.—Bids are asked by Fred. Gelinas, Secy. Dept. of Public Works, until Sept. 12 for construction of building for the archives. Band, Burritt & Meredith, Archs., Sparks St.

WATER SUPPLY AND IRRIGATION.

ATTLEBORO, MASS.—Water Commissioners are stated to have recommended that town erect another concrete and steel standpipe of 1,500,000 gallons capacity on Ide's Hill.

SPRINGFIELD, MASS.—Hazen & Whipple, Consult. Engrs., 220 Broadway, New York, are to draw up plans and specifications for proposed filtration plant for Ludlow water system.

WORCESTER, MASS.—Mayor Walter H. Blodgett has been notified that an additional appropriation of $60,000 will be needed to complete repairs on the Paxton reservoir, work on which is well under way.

POUGHKEEPSIE, N. Y.—Contract for installing water filtration plant at Hudson River State Hospital, bids for which were opened Aug. 31, has been let to T. A. Gillespie Co., 71 Broadway, New York. Itemized bids for above work are given under Contract Prices.

SCHOHARIE, N. Y.—Village clerk writes that it has been voted to establish works to cost $30,000.

NEW YORK, N. Y.—Bids were received by Department Water Supply, Gas and Electricity, 13 Park Row, Aug. 31 for furnishing and laying high pressure mains for salt water fire protection system at Coney Island. Borough Construction Co., 189 Montague St., Brooklyn, was low bidder at $40,121. Other bids were as follows: Wm. J. Baldwin, $51,916; Geo. W. Phillips, $48,025; Henry Neuman, $46,894; M. J. Dady, $66,185; John J. Creem, $58,007; Isaac Harris, $55,115. The itemized bids for this portion of the work are given under Contract Prices.

MEDINA, N. Y.—Municipal water-works under consideration. W. B. Robbins is Mayor.

NIAGARA FALLS, N. Y.—This city is to vote Sept. 8 on a bond issue of $764,000 for municipal water-works as was stated in our issue of Aug. 25. An estimate of the cost of the work proposed is as follows:

Site for new pumping station and future filter beds, $40,000; intake, tunnel and shaft, $140,000; intake crib, $20,000; new pumping station, $25,000; new force main, $65,000; valves, chambers and venturi meters, $5,000; three 6,000,000-gallon pumping engines, water tube boilers and foundations, $65,000; for contingencies, engineering, etc., 15%, $54,000; acquiring plant of Niagara Falls Water-works Co., $350,000; total, $764,000. Walter McCulloh is Cy. Engr.

NUTLEY, N. J.—Nutley Realty Co. has asked town to extend water mains on Hawthorne Ave. and Colonial Terrace.

MOUNT HOLLY, N. J.—Local water company, James W. Deacon, Mgr., is stated to be talking of putting in a new engine.

LITTLE FALLS, N. J.—W. F. Jones, Pres., Cyclopeans Iron Works Co., is stated to have asked water-works franchise here, agreeing if it is granted to erect a plant and have water for fire protection within 90 days.

JERSEY CITY, N. J.—J. Roosevelt Shanley, Jersey City, is stated to have been lowest bidder Aug. 29, at $107,667, for laying water mains. The work consists of about 16,995 ft. of 26, 30, 24, 16 and 12-in. pipe; 1,000 cu. yds. road excav.; 6,000 lin. ft. piling; 7 M. ft. capping; 7 M. ft. flooring; 30 M. ft. sheathing; 100 cu. yds. brick masonry; 100 cu. yds. concrete, and 800 lin. ft. 18, 15, 12 and 6-in. vitrified pipe.

COALPORT, PA.—Saupp & Dhew, Altoona, Pa., are stated to have secured contract for erection of pumping station and tank and for laying about 15,000 ft. of pipe at this place.

GREENSBURG, PA.—Western Water Co., composed of Pittsburg capitalists, is securing site for proposed reservoir in Indian Creek Valley. Surveyors are in the field to secure shortest route to Pittsburg and intervening towns. The plans are said to call for the building of an immense storage reservoir at Normanville and for the tunnelling of the Chestnut ridge in the southern townships of this county.

BANGOR, PA.—Board of Underwriters of the Middle Department will, it is stated, recommend that Bangor Water Co. lay 10-in. mains from its reservoir to and through the business section of the town.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

SLIPPERY ROCK, PA.—J. M. Baird, Burgess, writes that new city works are to consist of drilled wells, iron pipe distribution system and possibly a standpipe. Est. cost is $10,000 and no bids have been received as yet, nor has Des. Engr. been appointed.

WASHINGTON, D. C.—Bids are asked by the Isthmian Canal Commission until Sept. 21 for furnishing about 4,300 tons of 6-20-in. cast iron water pipe and specials for the city of Panama. Necessary connections aggregate 376 pieces of a total weight of 91,855 lbs. J. G. Walker, Chn. (Advertised, Engineering News.)

EMPORIA, VA.—Bids are asked until Sept. 29 for the construction of water-works and sewerage system, consisting of about 21,800 ft. of 4-8-in. cast iron pipe and specials, tank and tower, gasoline engine, power house and pool, digging and back filling, and for the sewer system, about 17,227 ft. of 6-15-in. terra cotta pipe, 300 "Y" branches, 14 manholes, 11 automatic flush-tanks, 24 lamp holes and 6 hose flush openings. J. R. Grizzard, Town Clk. Chas. S. York, Consult. Engr., 1526 E. Biddle St., Baltimore, Md. (Advertised, Engineering News.)

WHEELING, W. VA.—William Kolhnline, Bridgeport, O., and Castoe & Warner, Bellaire, O., are stated to have secured contract for furnishing and laying new 30-in. force main for this city for $75,000.

SPARTANBURG, S. C.—J. L. Ludlow, Consult. Engr., Winston-Salem, N. C., is reported to be making estimates and preparing a report on improvement of plant of local water-works company, of which Jno. B. Cleveland, is Pres.

SAVANNAH, GA.—Bids are asked until Oct. 1 for water system at Ft. Screven. Jos. T. Davidson, Q. M.

ADEL, GA.—Water-works agitated.

MACON, GA.—Mayor Bridges Smith has recommended to Council that city enter into negotiations at once for the purchase of water-works plant, or, if it cannot buy the present plant at a reasonable price, it should construct a plant of its own.

BESSEMER, ALA.—Mayor Thos. T. Huey has signed contract with Bessemer Water-Works Co., and it is stated that latter will at once start work on new system which is to cost $100,000. Supply is to be pumped from Hawkins Springs to reservoir in Red Mountain. U. S. Cast Iron Pipe & Foundry Co., is stated to have been awarded contract for pipe.

MONTGOMERY, ALA.—We are informed that bids will be received at office of City Treasurer until Sept. 17 for between 30 and 50 miles of pipe and special castings. Specifications may be obtained from City Clerk. Benjamin Bosworth Smith is Des. Engr. Est. cost of proposed work is $200,000.

BIRMINGHAM, ALA.—The City Council is stated to have instructed the city attorney to take steps to have the state charter of the Birmingham Water-Works Co. forfeited, on the ground that the company is not living up to its charter.

ABBEVILLE, LA.—Council has been considering erection of water-works to cost $40,000.

MINDEN, LA.—Town has voted to issue $36,000 of bonds for constructing water-works.

COLUMBIA, MISS.—Water-works and electric light plant may be installed here by private capital.

COLLINS, MISS.—Plans and specifications are stated to have been prepared for water-works, and town may vote on bond issue for its construction.

CARLISLE, KY.—Council has agreed on plan for construction of system of water-works, and has purchased ten acres of land on which to erect the reservoir. It will shortly advertise for bids on construction.

DAYTON, O.—Council has authorized the clerk to advertise for proposals for 30 fire hydrants, more or less.

DAYTON, O.—We are informed that matter of relieving low pressure in water system has been referred to city council, but that as yet no action has been taken by that body. Chas. E. Rowe is Supt. W.-W.

CINCINNATI, O.—Bids are asked by Board of Trustees Commissioners of Water-Works until Sept. 30 for the laying about 6,300 ft., 20-in. cast-iron pipe, special castings and valves on Woolper Ave., and Clifton Ave., McAlpin Ave., and Lafayette Ave., and other miscellaneous work in connection. Bids are also asked for laying about 7,070 ft. 24-in. cast-iron pipe in Burnett Ave. Chas. G. Roth, Clk.

CLEVELAND, O.—Officials Water Department will complete a report in six or eight weeks recommending the enlargement of the city water-works system as a provision for the future.

PORTSMOUTH, O.—Council Committee, J. W. Smith, Chn., has been empowered to secure engineer to draw up plans and estimates for improving the city water-works system.

SANDUSKY, O.—Bids are asked by Board of Public Service until Sept. 13 for furnishing on board cars Sandusky 3,000 lin. ft. of 6-in. and 400 lin. ft. of 12-in. standard weight cast iron water pipe and about one ton of special fittings. Bernard J. McGorray, Clk.

VINTON, O.—Water-works agitated.

BLOOMFIELD, IND.—Home Light & Water Co., according to reports will erect its plant itself, all bids received being considered excessive. 40 ft. stand-pipe is to be built.

CAPAC, MICH.—Village voted Aug. 25 to issue $7,000 of bonds for completing village water-works and light plant.

OVID, MICH.—Contract for steel tower addition to the water tank has been let to W. E. Caldwell Co., Louisville, Ky., for about $2,000.

MANISTIQUE, MICH.—Committee Board Public Works is to secure engineer to make surveys and to prepare plans and specifications for water-works for this city. It is stated that abundant supply can be obtained from artesian wells.

MENOMINEE, MICH.—Valuation of local water-works is to be made with view to its purchase by city.

EVANSVILLE, IND.—Evansville Pure Water Co., through Lew Wallace, Jr., Indianapolis, Ind., has made proposition to Council to install filtration plant.

RICHMOND, IND.—Mayor W. W. Zimmerman is stated to be urging purchase of local water-works by city.

CHICAGO, ILL.—Bids are to be called shortly for constructing new superstructure for crib at Lake View Pumping Station, at a cost of $65,000.

CHESTER, ILL.—Degree of Circuit Court has ordered sale of plant of Chester Light, Water & Power Co., which is now said to be operating at a loss.

LA CROSSE, WIS.—Board of Aldermen are stated to favor installation of filtration system at a cost of about $100,000.

REEDSVILLE, WIS.—Village votes not to bond for municipal water-works and lighting plant.

KIEL, WIS.—Bids are asked until Sept. 27 for furnishing 12,000 ft. of 4, 6 and 8-in. water main, hydrants, valves and specials and 4,000 ft. of 10-in. sewers, manholes, etc. W. G. Kirchoffer, Engr., Baraboo. (Advertised, Engineering News.)

GARRISON, IA.—Works agitated.

MT. AUBURN, IA.—Works agitated.

DES MOINES, IA.—It is reported that the State may have to put in water-works at a cost of $30,000 at the Cherokee Hospital for the Insane.

TWIN VALLEY, MINN.—Alf. Andersen, Village Recdr., writes us that contract for water-works has been let to Allan Black Co., St. Paul, Minn. Work requires furnishing and laying of about 45 tons of pipe, specials, hydrants, gasoline engine and pump, and steel tower and tank. Bids were opened Aug. 26.

GLENDIVE, MONT.—Local reports state that construction of irrigation canal to reclaim 75,000 acres is proposed. W. B. Foster and E. C. Leonard are interested.

FT. LEAVENWORTH, KAN.—See under Sewerage.

FRANKLIN, NEB.—Ed. M. Hussong, County Surv., has completed preliminary surveys for water-works for this city. Supply is to be from spring, ¾ mile from city, and system will cost about $20,000.

GREELEY CENTER, NEB.—Town voted Aug. 30 on $10,000 bond issue for constructing water-works. G. W. Scott is Village Clk. Post Office, Greeley.

TABOR, S. DAK.—Bids are asked until Sept. 10 for construction of complete water system, comprising 2,000 bbl. tank, 20 ft. steel tower and 1,600 ft. main. W. L. Bruce, Engr., Yankton, S. Dak.; Jas. A. Wagner, Town Clk.

ARGENTA, ARK.—Installation of water-works and light plant discussed.

FORT WORTH, TEX.—John B. Hawley, Fort Worth, has been retained as consulting engineer by North Fort Worth, for new water-works to be installed there, for which $100,000 bonds were voted. Mr. Hawley is also consulting engineer for water-works at Quannah.

JACKSONVILLE, TEX.—City water-works considered.

HOUSTON, TEX.—Texas Sanitary Street Flushing Co. has been incorporated with $5,000 capital to supply water. Chas. X. Gauthier and Frank C. Mitchell are interested.

SAN ANTONIO, TEX.—Rio Grande Land & Irrigation Co. has been incorporated with $200,000 capital, to establish irrigation plants and mill. T. B. Cobb and Ira H. Hildebrand, San Antonio, are interested.

HOUSTON, TEX.—Houston Land & Irrigation Co. has been incorporated with $400,000 capital. Alex. Peddie, Emmettsburg, La., and Geo. T. Hedges, Cedar Rapids, Ia., are interested.

DENVER, COLO.—Bids are asked until Sept. 26 for constructing water supply system at Fort Wingate, N. Mex. Col. C. A. McCauley, C. Q. M., Denver.

SEATTLE, WASH.—Board Public Works has let contract for Latona Ave. water main to Pacific Coast Pipe Co for $19,804. Same company was awarded contract for 52d St. main for $1,771.

SEATTLE, WASH.—Board Public Works is asking bids until about Sept. 17 for constructing following water mains in 13th Ave., est. cost, $6,400: Dravus St., $11,700; Sunnyside Ave., $1,520. R. H. Thomson is Cy. Engr.

SEATTLE, WASH.—A. H. Chambey has been granted franchise to construct and maintain a water main to supply Dunlap and other towns south of the city with Cedar River water, and as soon as he can secure the right from the city to tap its mains work on the line will commence.

ROCKFORD, WASH.—Committee, J. B. Gilbert, member, is to report on putting in water system.

HOOD RIVER, ORE.—Steps have been taken to raise money to build irrigation ditch at cost of $100,000. F. W. Angus and D. E. Markham are interested.

GRASS VALLEY, ORE.—Town proposes to purchase and enlarge local water and light plant.

LOS ANGELES, CAL.—Rancho Sespe Water Co., has been incorporated with $150,000 capital. J. W. Calkins and S. J. Parson are interested.

FORT BRAGG, CAL.—Fred. J. Smith has asked council for franchise for water-works.

SAWTELLE, CAL.—Board Supervisors have granted permit to H. K. Laird to extend his water system to the eastern portion of town.

WHITTIER, CAL.—Council has passed resolution for proposed bond issue for purchase of 1,000 meters to cost $7 each.

MODESTO, CAL.—An election will be held in Turlock Irrigation District Sept. 10, to vote on $200,000 issue of bonds. J. L. Brown, Secy.

EUREKA, CAL.—B. Gallagher has filed claims to 4,000 inches of water flowing in Red Cap Creek, 3½ miles from mouth for mining and agricultural purposes.

REDLANDS, CAL.—It is stated that improvements are to be made shortly to plant of Redlands Water Co.

OAKLAND, CAL.—Matter of securing municipal water supply from the San Juan River is under discussion.

CALAVERAS, CAL.—It is stated here that the Mokelumne & Campo Seco Canal & Mining Co. intend to build another and larger reservoir at the lower end of the Calaveras valley for additional conservation of water for use during the summer months. The dam will be 140 ft. high and 900 ft. long, and will be constructed of solid masonry. The work will probably be done by contract.

IMPERIAL, CAL.—Water Users Association of Imperial Valley have decided to purchase Imperial canal system from California Development Co. for $3,000,000. The purchase will be made under terms of U. S. Reclamation act, and the improvement of nearly 500,000 acres of land will result.

LONG BEACH, CAL.—City may vote on bond issue for municipal water-works.

MARYSVILLE, CAL.—Jason R. Meek has filed notice of water appropriation for 30,000 ins. of Dry Creek to be conducted to the Oregon House Valley where a reservoir will be constructed, thence to Township 16, where it will be used for generation of power for electrical purposes and for irrigation. M. P. Vieira filed similar notice of appropriation of 20,000 ins. from the same stream a mile north of the Oregon House postoffice, to be used for the same purposes.

BISBEE, ARIZ.—Local reports state that Isaac Bailey has gone to London, England, to form a company with capital of $400,000, which is to give Bisbee another water system. A large reservoir is to be constructed and company will install a power plant for electrical purposes.

MOHLER, IDAHO.—Water-works agitated.

OGDEN, UTAH.—Warren Pump & Irrigation Co has been incorporated with $10,000 capital by F. F. Barrows, W. Knight and T. D. Walker, to construct reservoirs, canals, pumping plants, etc.

PRICE, UTAH.—The Garden Land & Water Co. has been incorporated with $45,000 capital, by R. Forrester, B. R. McDonald, W. D. Foster, to reclaim tract of land and build reservoirs and canals along Muddy Creek in Emery County.

NORTH BAY, ONT.—L. V. Clark, Town Engr., writes that the town propose spending $35,000 on its water-works system.

WHITBY, ONT.—Contract for furnishing and laying the pipe for the water-works has been let to the Donnelly Wrecking & Salvage Co., Kingston, Ont.

MONTREAL, QUE.—Contract for leveling and cementing McTavish St. reservoir has been let to Amiot & Strubbe for $15,500. Contract for cementing basin in St. Louis Sq. was let to Bertrand & Chagnow for $3,300.

SEWERAGE.

LOWELL, MASS.—Sewers in Stromquist Ave. and in West Forrest and Clifford Sts. have been recommended by Council Committee on Sewers. Estimated cost, $35,000 and $6,000, respectively.

SPRINGFIELD, MASS.—Sewer committees, Bd. of Aldermen, has ordered the construction at an early date of a sewer in Allen St., to connect with the Mill River intercepting sewer, and a sewer in Worcester St., Indian Orchard.

NAUGATUCK, CONN.—Edward Tracy, of Derby, was awarded contract for Spring St. sewer, at $1,516.

MAMARONECK, N. Y.—Town has voted to issue $200,000 bonds for the construction of a sewer system. Charles W. Buckter is Village Clk.

CORTLAND, N. Y.—James Grant, Cortland, has contract for four sewers, at $2,481.

SYRACUSE, N. Y.—15-in. pipe sewer will be built in Essex St. Est. cost, $1,000. George J. Metz, Cy. Clk.

WATERLOO, N. Y.—Village is in favor of constructing $56,000 sewer system. Bonds will be issued. Elias Vair, Village Pres.

BROOKLYN, N. Y.—Bids are asked until Sept. 21 by Martin W. Littleton, Pres. Boro., for constructing two sewers.

NEW YORK, N. Y.—Following parties were low bidders Aug. 29, for sewer work in Bronx Borough: Colgan & Pace, 177th St. and 3d Ave., sewer in Ryer Ave., $51,933; T. W. Morroy, sewers in Clifford Pl., $7,693; in Simpson St. $5,882, in Bassford Pl., $5,558.

NIAGARA FALLS, N. Y.—The Board of Public Works has decided to construct a tunnel sewer from Cleveland Ave. and 10th St. to the river. Steps will soon be taken. Estimated cost, $35,000.

BINGHAMTON, N. Y.—A report has been submitted on a route for constructing projected $85,000 trunk sewer in this city. If approved by taxpayers, bids will be asked for its construction.

UTICA, N. Y.—Plans and specifications for the extension of the sewers from their present outlets in the Mohawk River, will be prepared at once by John R. Baxter, Sr., who has been appointed by Council Committee on Sewers.

CAMDEN, N. J.—Ordinances have been passed authorizing construction of sewers, culverts and drains. Samuel P. Jones, Pres. Cy. Council. H. C. Kramer, Cy Clk.

LEWISTOWN, PA.—International Construction Co., of Pittsburg, was awarded contract for constructing house and storm water sewer for entire city, at $97,868. J. Murray Africa is Cy. Engr. and Supt. Sewerage Construction.

KITTANNING, PA.—It has been voted to issue $10.000 bonds for paving and sewers.

WEST CHESTER, PA.—A plan to dispose of city's sewage by cremation is under consideration owing to official protests of Delaware cities against the pollution of Brandywine River.

SUNBURY, PA.—The Susquehanna Sewer Co. has been incorporated. Capital, $5,000. G. E. Rohrback is interested.

INDIANA, PA.—Bids are asked until Sept. 12 for building 4,000 ft. of 8-in. pipe sewer, with 6-in. house connections, etc. R. N. Nullen, Boro. Engr.; Henry Hall, Pres. Council; John S. Taylor, Clk.

BALTIMORE, MD.—Board of Public Improvements has approved ordinance appropriating $20,000 for the construction of a sewer to connect the Bush St. sewer in Carrol Park with the Eagle St. and Cole St. sewers. Gen. F. C. Latrobe, of Park Bd., is interested.

WASHINGTON, D. C.—D. E. McComb, Supt. Sewers, informs us that three bids were received by District Commissioners on Aug. 22, as advertised for in Engineering News, for section of outfall sewer. Concrete sewers will be used. The Warren F. Brenzinger Co. was awarded contract at $123,741. Other bids were as follows: Sullivan Bros., Philadelphia, $128,471; J. H. Lockheim, Philadelphia, $144,795.

EMPORIA, VA.—See under Water-Works.

NORFOLK, VA.—Oscer Dashiells has been awarded contract, at $4,990, for sewering city public schools.

ABERDEEN, MISS.—Bids are asked until Oct. 5 for purchase of $70,000 of water-works and sewerage bonds. J. W. Acker, Mayor.

SAVANNAH, GA.—Bids are asked until Oct. 1, at Merchants' National Bank Bldg., for extending sewer and water systems at Fort Screven, Ga. Jos. T. Davidson, Q. M.

MIAMI, FLA.—J. H. Tatum & Co. are reported to have purchased 160 lots on the west side of the Miami River. They will construct roads and walks and establish water and sewer systems. They also have applied to the War Department for permission to erect steel drawbridge over the river at foot of 12th St.

WEST PALM BEACH, FLA.—City has voted to issue $9,000 bonds for street improvements.

SHREVEPORT, LA.—Bids are asked until Sept. 19 for building 54-in. concrete or brick sewer. C. G. Rives, Comptroller.

COVINGTON, KY.—Bonds to the amount of $50,000 will be issued for sewer improvements.

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PADUCAH, KY.—Charles Robertson was awarded contract, at $4,202, for storm-water sewer in Broadway.

SEBRING, O.—Council has passed resolution providing for construction of sanitary sewer system and disposal works, to cost $47,000, it is reported.

CLEVELAND, O.—About $300,000 of bonds will be sold within next eight weeks, it is reported. J. P. Madrigan is Cy. Audr. $114,000 of this amount will be used for work on the intercepting sewer.

CLEVELAND, O.—Robt. Hoffman, Asst. Cy. Engr., is reported to be preparing plans for new intercepting sewer.

Contract for furnishing and delivering 13,000 lin. ft. 15-in. sewer pipe has been awarded to Central Builders' Supply Co., of Cleveland.

MANSFIELD, O.—A. E. Hancock, Mansfield, was awarded contract for Spring Mill St. sewer, at $[illegible],262. Work includes 4,900 ft. of 8 to 12-in. pipe sewers, [illegible] manholes and two flush tanks. Trench will average [illegible] ft. in depth, and will be excavated in clay and gravel. J. M. Ottinger is Secy. Bd. Pub. Service.

STEUBENVILLE, O.—$40,000 is said to be available for new sewer work. F. King is Cy. Audr.

CINCINNATI, O.—Bids are asked until Sept. [illegible] by Board Public Service for furnishing material and constructing sewers and drains in portions of several streets. Geo. F. Holmes, Clk.

McCarthy Bros., local contractors, were lowest bidders for construction of sewer in Clifton Ave. Approximate bid $21,000; Kirschner Co.'s bid for paving Schroeder Ave. was the lowest; approximate, $12,000.

ASHTABULA, O.—Bids are asked until Sept. 10 for sewer in Erie St. A. J. Richardson, Clk.

COLUMBUS, O.—Construction of a sewage disposal plant at Arlington has been recommended by Board of Health. Sewers now emptying into Scioto River, at that point, are said to pollute city water supply.

NEW ALBANY, IND.—It is reported that date of opening bids for the proposed sewer system, approximate cost of which is $200,000, will not be determined for about 2 months. E. B. Coolman is Cy. Engr.

RICHMOND, IND.—Bids are asked until Sept. 19 for constructing sewer. John F. Taggart, Cy. Clk.

SOUTH WHITLEY, IND.—Bids are asked until Sept. 16 for construction of State St. sewer. J. J. Van Auken, C. E., Auburn, Ind.; W. S. Lancaster Town Clk

MONROE, MICH.—Contract for a trunk sewer in Fourth Ward has been awarded to W. J. Wight, Cy. Engr., at $4,500.

MARQUETTE, MICH.—Council is reported to be considering the construction of a trunk sewer for all that part of the city lying north of Ridge St. It will be about 10,000 ft. in length. Cost, about $25,000.

MANISTIQUE, MICH.—Preliminary steps have been taken toward constructing sewer and water systems here. An engineer will be appointed to prepare plans.

BAY CITY, MICH.—Contract for construction of a brick sewer along Park Ave. has been awarded to R. Donohue & Co. for $9,787.

DECATUR, ILL.—Bids are asked until Sept. 12 for construction of 15-in. sewer in North Jasper St., and also in other streets. Albert Leach, Cy. Clk.

EVANSTON, ILL.—Cain Construction Co., Dayton, O., was awarded contract, at $24,682, for building sewer system. Work approximates: 9,450 ft. of 36-12-in. tile sewer; 30 manholes and iron covers; 30 catch basins, connections and covers.

ROCKFORD, ILL.—Bids are asked until Sept. 8 for constructing sewers in numerous streets. Estimated cost, $11,000.

EAST ST. LOUIS, ILL.—Local reports state that proposed $800,000 outlet sewer will not be constructed, and ordinance probably will be repealed. Plans will be changed.

KIEL, WIS.—See under Water-Works.

MILWAUKEE, WIS.—Bids are asked until Sept. 9 by Board Public Works, for furnishing material and constructing Section No. 1 of intercepting sewer for relief of 30th St. tunnel. Chas. J. Poetsch, Chn.

Bids are asked until Sept. 10 for construction of sewers in several streets.

DES MOINES, IA.—Press reports state that if the State Board of Health carries its campaign against the pollution of Iowa streams and rivers nearly every city and town in the state will be compelled to revise its disposition of sewage. At a recent meeting a resolution was referred to the board's civil engineer with a request that it be taken under consideration, and that he report back to the board at an early date giving his recommendation as to what action along the proposed line would be advisable. It is the plan of the board to prevent the emptying of sewage from cities and factories into the streams and rivers.

OSKALOOSA, IA.—Bids are asked until Sept. 12 for constructing North Penn College and Ninth Ave. sewers; about 7,186 ft. 8 and 15-in. vitrified pipe. S. R. Crissey, Cy. Clk.

ST. PAUL, MINN.—Bids are asked until Sept. 12 for sewer in St. Anthony Ave. John S. Grode, Pres. Bd. Pub. Wks.

ST. PAUL, MINN.—Board Public Works has awarded contract for sewer in Acker St. and on Lightner Pl. to Chris. Johnson, at $1,719.

TOPEKA, KAN.—Bids are asked until Oct. 3 for construction of sewers in District No. 24. J. H. Squires, Cy. Clk. Instructions to bidders for this work, as advertised in Topeka "Herald," are on file at New York office of Engineering News.

FORT LEAVENWORTH, KAN.—Bids are asked until Sept. 17 for constructing sewers and water mains at Fort Leavenworth. Maj. D. E. McCarthy, Q. M.

OMAHA, NEB.—Sewers will be built this fall, it is reported, at an aggregate cost of $80,000. Andrew Rosewater is Cy. Engr.

OMAHA, NEB.—Bids are asked until Sept. 9 for constructing main sewers in portions of three streets; also for constructing and enlarging sewers in portions of Jones St. Wm. Coburn, Secy. Bd. Pub. Wks. Andrew Rosewater, Cy. Engr.

HARVEY, N. DAK.—Bids are asked until Sept. 10 by C. W. Thompson, Clk., for the purchase of $8,000 of water and sewer bonds.

HAVRE, MONT.—We are informed that bids are asked until Sept. 15 for furnishing all labor and material for construction of sanitary sewers in Sewer Districts Nos. 1 and No. 2, agggregating three miles of main and laterals, as follows, approximately: 2,000 ft. 18-in.; 650 ft. 15-in.; 2,000 ft. 12-in.; 3,000 ft. 9-in.; 6,450 ft. 8-in.; all vitrified pipe. 550 junctions; 32 brick manholes; 12 brick flush tanks with automatic siphons; two masonry outlets; one cu. yd. of solid rock excavation; one cu. yd. of soft rock excavation; 21,500 cu. yds. of earth excavation and refill. J. M. Kelly is Cy. Clk. C. W. Swearingen is Cy. Engr.

SOUTH ST. JOSEPH, MO.—Engineers are taking steps toward proposed sewer system.

PINE BLUFF, ARK.—Bids are asked by John M. McCain, Chn. Improvement Bd., until Sept. 10 for purchase of $30,000 sewer bonds.

PUEBLO, COLO.—Bids were received on Aug. 22 for constructing sanitary sewers for Lake Minnequa system. Standard Construction Co. was lowest bidder, at $10,517. Work includes 2,138 ft. 6-in. pipe; 17,860 ft. 8-in. pipe; ft. 10-in. pipe, 7 flush tanks, 16 manholes, 33 inspection pipes.

SEATTLE, WASH.—Bids are asked until Sept. 10 for constructing sewers in Bay View St. Estimated cost, $15,000. R. H. Thompson is Cy. Engr.

T. E. Dickens & Co. have contract for First Ave. North sewer, at $2,294.

LOS ANGELES, CAL.—Bids are asked by Treasurer, Pacific Branch, N. H. D. V. S., Soldiers' Home, Los Angeles County, Cal., until Sept. 19, for construction cement septic tank. T. J. Cochrane, Treas.

SAN DIEGO, CAL.—Contract for furnishing Kalamein pipe for extension of sewer system has been awarded to Western Metal Supply Co., of San Diego, at $2,962. G. A. d'Hemecourt is Cy. Engr.

BAKERSFIELD, CAL.—Plans submitted by City Engineer Evans for proposed sewer district have been adopted. Resolution of intention to construct sewer has been passed.

SAN FRANCISCO, CAL.—Bids are asked until Oct. 3 for purchase of sewer bonds, aggregating $724,800. Chas. W. Fay, County Clk.

OMAHA, NEB.—Bids are asked by the Board of Public Works, until Sept. 30, for the construction of sewers, consisting of about 3,000 ft. of 3-ring sewer, 8 ft. in diameter and 3,000 ft. of 2-ring sewer, 6 ft. in diameter. William Coburn, Secy. Andrew Rosewater Chn. (Advertised, Engineering News.)

SAN PEDRO, CAL.—F. S. Whitman, Cy. Engr., estimates cost of proposed outfall sewer at $25,000. Sewer and cast iron pipe will be needed. Preliminary steps have been taken for issuing bonds.

SANTA MONICA, CAL.—Board of City Trustees may take steps toward repairing the outfall sewer and extending main sewer along Colorado Ave., also to rebuild two bridges and retaining walls.

MOSCOW, IDAHO.—Bids are asked by Registrar Idaho State University, at Moscow, until Sept. 12 for construction of about 965 ft. of 6 and 8-in. vitrified pipe sewers in campus of the university. W. C. Harrison, Registrar.

STREETS AND ROADS.

BEVERLY, MASS.—Contract for reconstruction of streets has been awarded to Antonio Tomasello, Leverett St., Boston, Mass., at $22,244. Wm. A. Lee, Clk. Com. Streets, Sewers and Water-Works.

BOSTON, MASS.—Contracts for building two sections of the state highway were awarded by Massachusetts Highway Comn. as follows: For 2,800 ft. from Turners Falls toward Mellers Falls, to Olin T. Benedict, of Pittsfield, at $2,507; for 6,900 ft. in the town of Chester, to Hammond & Walsh, Pittsfield, at $4,954, and for 6,500 ft. in Quincy, to Richmond F. Hudson, of Melrose, at $9,768.

PLAINVILLE, CONN.—Funds are available for more macadam work on East and East Main Sts. R. J. Prior is Selectman.

WATERFORD, CONN.—Contract has been awarded to Post Brothers, of New London, for construction of 2,984 lin. ft. of macadam road, at $5,670.

WEEKAPAUG, R. I.—All bids for construction of one mile of macadamized road from Dunn's Corners to the beginning of Weekapaug received by highway committee were rejected. Bids were as follows: John Briscow, of Narragansett Pier, $5,890; Edward McKnight, of Pawcatuck, $5,544; Lane Construction Co., of Meriden, Conn., $5,903.21. Bids were deemed excessive. Work will be done by the town under the supervision of the town committee, which has a special appropriation of $2,500, with the balance to come out of the regular highway appropriation.

BROOKLYN, N. Y.—It is reported that the Park Board has awarded contract to widen the Shore Drive, to the Cranford Co., Ninth St., at $6,570.

Bids are asked by Sept. 14 by Martin Littleton, Boro. Pres., for regulating, grading and paving with macadam on a portion of Bay 15th St., about 9,140 sq. yds. macadam, 4,290 lin. ft. new curb, 1,130 cu. yds, earth excavation, 1,250 cu. yds. earth fill, etc.; also regulating, grading and laying sidewalks on portions of several streets; requiring 13,766 cu. yds. earth excavation, 15,546 lin. ft. new curb, 11,882 cu. yds. earth fill, 62,740 sq. ft. cement sidewalks, etc.

NEW YORK, N. Y.—Asphalt has been decided upon by John F. Ahearn, Boro, Pres., as material to be used for repaving Park Row. Bids will be advertised for.

NEW YORK, N. Y.—The following are the lowest bidders for street improvement in the Borough of Bronx, bids for which were received Aug. 29. Regulating and grading, etc., W. T. Murray, 1554 Boston Road, Vyse Ave., $32,520, E. 167th St., $23,445; Wendover Ave., $1,891; Antonio Cebrelli, improving 147th St., $5,853; D. W. Moran, improving Belmont St., $2,251; T. Del Balso, 1480 Hoe Ave., improving Oakland Pl., $6,421. Repaving with granite block, Cunningham & Kearns, 440 E. 91st St., improving Westchester Ave., $69,475, E. 152d St., $26,351, Rider Ave., $18,042, 3d Ave., $14,802, Fairmont Ave., $6,848; J. H. Devlin, improving 136th St., $19,881. Repaving with asphalt block and asphalt, Barber Asphalt Co., improving Longwood Ave., $37,991, E. 162d St., $7,282, E. 154th St., $15,737. Repaving, asphalt, Asphalt Construction Co., 207 Broadway, improving Lincoln Ave., $22,790, Park Ave., $12,020, Park Ave., 177th St. to 183d St., $26,550; Barber Asphalt Co., improving E. 139th St., $4,526, E. 142d St., $694, Grove St., $2,324, E. 139th St., $1,784, E. 159th St., $3,661, Jackson Ave., $3,623; Uvalde Asphalt Co. Pond Pl., $3,900.

NEW YORK, N. Y.—Bids are asked until Sept. 16 by Commissioners of Common Lands Fund of late Town of Gravesend, L. I., for regulating and macadamizing portions of several roads, about 23,562 sq. yds. Geo. B. McClellan, Mayor.

Cunningham & Kearns, Construction Co., 43 East 91st St., has secured the contract for paving with granite between 130th and 131st Sts. and Harlem River, at $8,290; Matthew Baird Contracting Co., 433 East 92d St., contract for granite paving, between East 131st and 132d Sts. and Park Ave., at $12,300.

HOBOKEN, N. J.—Bids are asked by James H. Londugan until Sept. 28 for paving work.

ARLINGTON, N. J.—Project has been introduced before the Good Government Club, J. Albert Stowe, Chn. Executive Com., for an addition to the parkway across the Hackensack meadows to Jersey City. The matter has been laid before the Hudson County Park Commission by the Good Government Club for further action.

JERSEY CITY, N. J.—Several merchants' leagues and merchants on Newark Ave., between Warren and Brunswick Sts., have opposed the project to repave that street with granite blocks, for which $35,000 has been appropriated by Board of Finance. Asphalt pavement is preferred. It is also suggested that Newark Ave. be widened. Mayor Fagan, with city officials, will consider matter.

MEADVILLE, PA.—Contract to construct 12,777 ft. of macadamized road from this city to the west line of East Mead Township has been awarded to Booth & Flynn, of Pittsburg, at about $16,923.

VERONA, PA.—Bids will be received by Street Committee for grading, paving and curbing with vitrified brick Front St.

ETNA, PA.—Borough is ready for bids on 6,500 sq. yds. brick paving and 1,500 lin. ft. of 10-in. to 18-in. vitrified tile pipe.

WARREN, PA.—Bids are asked by State Highway Department at Harrisburg until Sept. 10 for constructing 20,844 ft. of road in Conewango township.

ERIE, PA.—Bids are asked until Sept. 27 by State Highway Dept., at Harrisburg, for constructing 18,700 ft. road leading from Ohio state line in Springfield Township; 9,675 ft. road leading from east city line of Erie in Mill Creek Township; 5,300 ft., extending from Buffalo road over Station road in Harbor Creek Township, and 5,280 ft. leading from east line of Mill Creek Township eastward over Buffalo road in Harbor Creek Township; all in Erie County. J. A. Robinson, Clk. County Comrs.

WASHINGTON, PA.—County Commissioners will soon be ready for bids on building two miles macadamized road in Mt. Pleasant township. Road will be 10 ft. wide.

KITTANNING, PA.—Citizens have voted to issue $10,000 of bonds for street paving and sewer work.

ECONOMY, PA.—Contract for grading, paving and curbing Merchant St., from Ambridge to Economy with vitrified brick awarded to Sweeney & Co., Pittsburg, Pa. Cost, $43,000.

BALTIMORE, MD.—Gibson, Nichols & Co. were only bidders to open Franklin Ave., in 14th district, at $1,375. Contract was not awarded.

CHARLOTTE COURT HOUSE, VA.—Board of Supervisors will bond the county not to exceed $3,000 a mile to construct five miles of macadamized road from Drake's Branch to Charlotte Court House.

POINT PLEASANT, W. VA.—Bids are asked by Town Council until Sept. 10 for 13,690 sq. yds. brick paving and 7,210 lin. ft. stone curbing. Est. cost, $30,000.

WASHINGTON, N. C.—We are informed that this city is soon to have streets improved at a cost of several thousand dollars. Address Hon. E. T. Stewart, Mayor.

AUGUSTA, GA.—Broad St. paving is under consideration by Council.

MIAMI, FLA.—See under Sewerage.

MEDINA, O.—Bids are asked until Sept. 19 by Village Council for furnishing material and improving a portion of West Washington St. by grading, curbing and paving with brick block, constructing storm water sewers, necessary culverts, drains, retaining walls, manholes and catch-basins. O. O. Van Deusen, Clk.

FREMONT, O.—Weible, Schott & Nelson, Massillon, O., were lowest bidders at $41,604, for paving on West State St.

KENNEDY HEIGHTS, O.—Bids are asked until Sept. 9 by J. A. Stewart, Village Engr., Traction Bldg., Cincinnati, O., for furnishing material and constructing artificial stone sidewalks on portions of Kennedy Ave. and Wyatt St. H. H. Grant, Clk.

BELLAIRE, O.—Trustees of Pultney township will receive bids until Sept. 29 for furnishing, breaking and spreading good limestone on the following pikes in Pultney township: Pike No. 1, 600 cu. yds.; pike No. 2, 200 cu. yds.; pike No. 3, 600 cu. yds.; pike No. 4, 200 cu. yds.; pike No. 5, 300 cu. yds. B. W. Hopkins, Clk.

MIDDLETOWN, O.—$5,000 of bonds will be issued for opening and extending streets here.

SPRINGFIELD, O.—Resolutions have been adopted ordering artificial stone sidewalks on Center and Jefferson Sts., West High Broadway, College Ave., Southern Ave. and Euclid Ave., and providing for the construction of combined cement curbs and gutters on Murray and West Jefferson Sts.

LYONS, O.—Election will be held on Sept. 18 to vote upon question of issuing $5,080 of bonds for macadamizing streets.

CLEVELAND, O.—$300,000 of bonds will be sold. $116,000 of this amount will be used for street openings. J. P. Madigan is Cy. Audr.

CINCINNATI, O.—Bids are asked by Board of Public Service until Sept. 14 for furnishing materials for improvement of several streets by grading, setting curbs, paving the roadway with brick and constructing necessary retaining walls. Geo. F. Holmes, Clk.

Bids also are asked until Sept. 28 by the Board for grading and paving on several streets.

DAYTON, O.—Bids are asked until Sept. 17 for grading, paving and graveling on several streets. Louis Haas, Pres. Bd. Pub. Service.

RICHMOND, IND.—Bids are asked until Sept. 19 for construction of cement sidewalks on portions of several streets. John F. Toggart, Cy. Clk.

INDIANAPOLIS, IND.—Bids are asked until Sept. 12 for various street work. M. A. Downing, Chn. Bd. Pub. Wks.

COLUMBUS, IND.—Wm. H. Rights, Cy. Engr., writes that contract for street paving, bids for which were advertised for in Engineering News was awarded to Barber Asphalt Paving Co. as follows: 8,310 sq. yds. asphalt; 3,920 sq. yds. brick, at $16,955 and $9,544, respectively.

BAY CITY, MICH.—County Road Commissioners will grade four miles, from the present terminus of the Garfield road, one mile north of Crump, and extend it north to Pinconning road.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

ESCANABA, MICH.—Property owners have decided to pave Ludington St.

DETROIT, MICH.—Lowest bids received for paving were as follows: Alexandrine Ave., from Greenwood to Lincoln Ave., Julius Porath, $5,884; Campbell Ave., from Dix to Toledo, W. W. Hatch & Son, $5,111; Bellevue Ave., from Kercheval to Berlin St., W. W. Hatch & Son, $11,500; 31st St., from Michigan Ave. to Horatio St., W. W. Hatch & Son, $15,662; Eighth St., Michigan Contracting Co., $501; 31st St., from Horatio St. to Warren Ave., W. W. Hatch & Son, $10,036.

MILWAUKEE, WIS.—Bids are asked until Sept. 9 by Board Public Works for furnishing material, grading and paving with brick on concrete foundation, portions of Brady St., and Kinnickinnic Ave., and with asphalt, portions of 12th St., Howell and Lincoln Aves. Chas. J. Poetsch, Chn.

Bids are asked until Sept. 10 for furnishing crushed stone; value $2,000; also, at same date, for furnishing gravel; value, $500.

DES MOINES, IA.—Bids are asked until Sept. 12, for grading Woodland Ave., about 7,500 cu. yds. earth excavation. W. W. Wise, Bd. Pub. Wks.

DAVENPORT, IA.—Fillmore St. will be widened by Rock Island Ry. Co. Cost, $21,000. L. B. Holt is Division Engr.

OMAHA, NEB.—The Board Public Works was directed to readvertise for bids for paving the intersection of 20th and Lake Sts. with brick.

ST. JOSEPH, MO.—South Fourth St. residents have petitioned for macadam paving of that street. Milton Taylor is interested.

OKLAHOMA CITY, OKLA.—Resolutions have been passed to grade and pave several streets. Lee Van Winkle is Mayor.

MILES CITY, MONT.—Bids are asked until Sept. 19 by T. A. Mapes, City Clk., for constructing sidewalks on portions of Pleasant and Ninth Sts.

DENVER, COLO.—Bids were received by Board Public Works, for grading, curbing, etc., certain streets in Highland Improv. Dist. No. 1. Chas. S. Connor, Denver, was lowest bidder, at $12,394.

TELLURIDE, COLO.—Contract has been awarded to Shelton & Williams to build a wagon road in San Juan county. Road will run through the Bridle Veil basin. Last legislature appropriated $4,000 for this work. The road must be completed in 1908.

SEATTLE, WASH.—A. D. Miller, of Seattle, has been awarded contract, at $25,648, for constructing road to Rainier National Park, Wash.

TACOMA, WASH.—Two bids were received for improvement of South D St. and South Ninth, 11th, 13th, 15th, 17th, 19th and 21st Sts, comprising local improvement district No. 39. George Milton Savage & Co. submitted low bid at $18,587; E. M. More, $19,230. Estimate of city engineer was $19,241.

PORT TOWNSEND, WASH.—Council has decided to build a road to connect the city with Fort Worden Military reserve. Committee will recommend construction of a first-class highway.

WALLA WALLA, WASH.—County Commissioners met with J. Z. Smith, of City Council, and W. S. Doffner, and it was definitely decided to have two miles of sample road built by government expert.

SEATTLE, WASH.—Bids are asked by Board Public Works until Sept. 10 for laying cement walks on 13th Ave. Est. cost, $5,840. R. H. Thomson, Cy. Engr.

SEATTLE, WASH.—The Board Public Works has awarded to James Markey the contract for asphalt paving Queen Anne Driveway, et al, at $39,269.

SONORA, CAL.—Bids are asked by J. J. Brady, Secy., until Sept. 17 for construction of public wagon road.

SAN FRANCISCO, CAL.—Bids are asked until Oct. 3 for purchase of bonds aggregating $4,673,600. $243,000 will be for streets; for children's playgrounds, $740,000; Golden Gate Park and Presidio extension, $328,000, and Mission Park, $292,000.

Board of Public Works has awarded contract for paving H St. with asphalt from Seventh to 12th Ave, to F. M. Yorke, at $29,150.

G. W. Cushing was awarded contract for grading and macadamizing 19th Ave. from Trocadero Road to Ocean Ave., at $4,116.

BRIGHAM CITY, UTAH.—Bids are asked by Jas. Jensen, County Clk., until Sept. 19 for constructing a grade on Malad Bottom.

MANUFACTURING PLANTS.

TAUNTON, MASS.—The Eagle Mill, Taunton, which was dismantled 12 years ago, is to start up again, and is to be furnished with up-to-date machinery.

PUTNAM, CONN.—It is stated that Home Knitting Mills Co., Boston, Mass., will erect a plant here.

ESOPUS, N. Y.—Bretzfield Mfg. Co., recently incorporated with $10,000 capital, is to manufacture leather goods and textile fabrics. Max Wankauser and August Straus, New York, are interested.

COLONIE, N. Y.—Herman Eggers, Cohoes, N. Y., is reported to be interested in company recently incorporated with $100,000 capital for raising and slaughtering cattle and establishing a rendering and soap-making plant at lock No. 6. Four large buildings will be erected, two of the main buildings being brick, 100 ft. long and two stories high. There will be two frame structures 100 ft. long and one story high. They will be equipped with the latest improvements.

PENN YAN, N. Y.—Standard Wine Co. has been incorporated with $100,000 capital. N. J. Hathaway and Chas. F. Hathaway, Penn Yan, are interested.

WATERLOO, N. Y.—Board of Trade has been considering application of a manufacturing firm of Fairmount, O., which seeks inducements to locate its plant here. It makes muslin and flannelette underwear and would employ about 100 girls at the start.

BROOKLYN, N. Y.—The Thompson & Norris Co., 2 Prince St., Brooklyn, have filed plans with the Building Department for a 6-story steel-concrete factory building. H. C. Miller, 1 Madison Ave., and Horace I. Moyer, are the engineers.

LONG ISLAND CITY, N. Y.—The Astoria Heat, Light & Power Co. will erect at Winthrop Ave. and Barclay St. two one-story brick factories, each to cost $54,000.

CAMDEN, N. J.—The Robert Emmet Co. has been formed, with $100,000 capital, to manufacture and sell men's and women's outfittings. James B. Drew, James J. Shannon and J. N. Witchenstein are incorporators.

READING, PA.—Geiger & Scarlett, proprietors of the Gem Knitting Mills, hosiery, Reading, have completed plans for a new mill. It will be of brick, three stories and basement. Plans will be submitted to builders for bids at once, and work commenced as soon as possible.

NEWPORT, PA.—Romberger Mill is to be enlarged to twice its present capacity. Present equipment 46 latch-needle and 12 sewing machines. A. D. Hoke is Supt.

POTTSTOWN, PA.—Endurance Knitting Mills Co. has been incorporated with $10,000 capital. Arthur Booth and Wm. S. Beltz, Pottstown, are interested.

PHILADELPHIA, PA.—German-American Hosiery Co. has increased its capital stock from $150,000 to $250,000, this increase being made, it is said, for increasing the capacity of the mill. The present equipment is 38 full-fashioned and 36 latch-needle knitting machines, and 32 sewing machines. Robert Meyer is Pres.

BRADFORD, PA.—The American Duplex Steel Co. will erect addition to plant here.

AMSTERDAM, N. Y.—It is reported that the Mohawk Mills, of the Smyrna Rug Mfg. Co., will install a plant for spinning their own yarns.

PORT HENRY, N. Y.—Citizens of this place are considering project for the establishment of a knitting mill.

BUTLER, PA.—C. M. Heeter will erect plant here for manufacture and repair of oil well machinery and tools.

BLAIRSVILLE, PA.—Plant of the Champion Enamel Ware Co., City, severely damaged by fire to extent of $20,000, will be rebuilt at once. C. V. Kellogg, 46 East 20th St., New York, is Pres.

CHARLEROI, PA.—Plant of the Hussey-Binns Shovel Co. here partly destroyed by fire, with loss of $50,000. R. H. Binns, Pittsburg, Pa., is Pres.

PITTSTON, PA.—Koelle, Speth & Co., Archs., Philadelphia, Pa., have been preparing plans for a brewing plant for Alpine Brewing Co. to cost $175,000. The building will consist of a brew house, stock house, wash house, boiler house, racking room, ice plant, engine and generator building and a heat, light and power plant. The buildings will cover an area of 170 by 100 ft. and will be from one to five stories high.

PITTSBURG, PA.—Mesta Machine Co., Pittsburg, will build large addition to present machine shops at West Homestead. Cost, $100.000.

McKEESPORT, PA.—Mayor G. J. F. Falkenstein has received a letter from A. H. Jackson, of Fremont, O., asking what inducements the city could offer for a factory for the manufacture of muslin and flannelette.

NEW RINGGOLD, PA.—In our issue of Aug. 25 it is stated that the Ringgold Cement Co. intends erecting a plant. The correct name of this company is Ringgold Paint Co. Chas. E. Roth, for the Ringgold Paint Co., writes us that the Henry S. Spackman Engineering Co., of Philadelphia, are the engineers, and will have full charge of machinery, etc. Sheet iron and concrete buildings, Erie boilers, Corliss engines, conveying machinery, crushers, rotary kilns, dryers, tube mills, elevators, special machinery, etc., will be required. Bids will soon be opened for a tunnel. Surveys are being made for buildings, tunnel, etc. Full information may be obtained from the engineers. Mr. Roth is interested in any booklets our advertisers may care to forward to him, and they will receive first attention.

PHILADELPHIA, PA.—The Mascot Hosiery Co., Philadelphia, which recently sold its plant to the newly incorporated Narragansett Knitting Co., has changed its name to the Mascot Knitting Co. and will manufacture hand knit goods.

PHILADELPHIA, PA.—D. O. Bourse has obtained a permit to erect a factory and stable at 23d, Manning and 24th Sts., for the Crane Ice Cream & Dairy Co., to cost $90,000. The plans, which are by Ballinger & Perrot, Archs., 1200 Chestnut St., provide for a 2-story and basement building, 110 × 241 ft. Work will begin Oct. 1.

PITTSBURG, PA.—The Briquette Fuel Co. will erect plant on South 18th St., City, for the manufacture of a new process fuel brick, utilizing waste coal products, coke refuse and other waste materials. Cost, $60,000, and will have capacity of 500 tons every ten hours.

PITTSBURG, PA.—Contract for fire-brick and refractory materials for 1,000 new coke ovens being built by H. C. Frick Coke Co., in Fayette County, Pa., was awarded to Harbison-Walker Refractories Co., Farmers' Bank Bldg., City, and Jos. Soisson Firebrick Co., Connellsville, Pa. 6,000,000 brick will be required.

G. C. Bromall, T. C. Perrine, W. P. Edmundson, and P. J. Boreman, City, with S. M. Nease, of Weston, W. Va., have formed the Bromall Iron & Steel Co., and will erect a steel plant near Belington, W. Va., on the W. Va. Central & Pittsburg P. R. Company is capitalized at $300,000.

WILMINGTON, DEL.—C. R. Youngling, of Purity Compressed Yeast Co., Inc., Box 205, Washington, D. C., desires literature regarding latest devices for handling and saving coal for a 2,000-HP. plant, to be erected near this city. Information is also desired concerning use of compressed air.

BALTIMORE, MD.—The sacking plant of Street & Cochran was destroyed by fire. Loss, $175,000.

HAGERSTOWN, MD.—The Hagerstown Silk Co. has purchased one-acre site and will erect a silk factory.

WILLIAMSBURG, VA.—Williamsburg Business Men's Association is stated to have agreed to donate site here for location of $25,000 woodworking plant.

PETERSBURG, VA.—Local parties are promoting organization of company, with $200,000 capital, to establish plant in this city for the manufacture of peanut oil, peanut butter and blanched peanuts. The machinery, it is estimated, will cost $50,000.

HUNTINGDON, W. VA.—Union Potteries Co., L. W. Fowler, Pres., 626 Farmer's Bank Bldg., Pittsburg, Pa., will build pottery here. Size 180 × 500 ft. A. Fritz, East Liverpool, is Arch. Cost, $125,000.

CHARLESBURG, W. VA.—W. W. Hamrick, City, is head of company, which proposes to erect a planing mill here. Company will be capitalized at $25,000. New planing mill, machinery and power equipment will be required.

FAYETTEVILLE, N. C.—Wm. Coleman, of Whitmires, N. C., has bought land at Fayetteville, and will build a cotton mill, to cost probably $1,000,000, for the production of fine cloths. About 450 acres comprise the tract obtained. Electric power will be used. It will be purchased from the Cape Fear Power Co., which has a large water-power electrical development near Charlotte.

GREENSBORO, N. C.—Hudson Overall Co. was recently incorporated with $100,000 capital, and proposes to manufacture overalls and other articles of clothing. C. C. Hudson and W. H. Rogan are interested.

WATKINSVILLE, GA.—It is rumored that A. J. Boxter, of High Shoals, Ga., will build a cotton factory here.

SAVANNAH, GA.—Gibbes Machinery Co., Columbus, Ga., has secured contract for installing plant of Savannah Excelsior Co., recently incorporated with $25,000 capital.

ATLANTA, GA.—William Bensel, Atlanta, has contract for erecting two-story building for Exposition Cotton Mills Co., and has begun work. Contracts have been placed for 8,000 spindles, 200 looms and other equipment. A. F. Walker, Atlanta, is Engr. in charge of the enlargement.

AUGUSTA, GA.—James U. Jackson, Augusta, is reported interested in organization of a company to build a cotton factory for the production of fine cloth.

COLUMBUS, GA.—John T. Abney, Supt. Laurens, S. C., Cotton Mills, is stated to be organizing company to operate a mill of either 10,000 or 20,000 spindles at this place.

ANNISTON, ALA.—Southern Electrical Co. is to erect plant in Ward Five, according to reports.

CAMDEN, ALA.—A stock company has been formed to build a $30,000 cotton oil mill at this place. It will have a capacity of 40 tons.

COLUMBUS, MISS.—Columbus Yarn & Cordage Co., incorporated with $10,000 capital, is stated to be making arrangements for the establishment of a yarn and cordage mill, the initial equipment to be 1,600 spindles. Ben Love, J. W. Jones and J. W. Steen are interested.

SHREVEPORT, LA.—The saw-mill of White & Wheeless, at Aldens Bridge, 40 miles from here on the Cotton Belt Railway, was destroyed by fire with a loss of about $100,000, covered by insurance.

CHATTANOOGA, TENN.—It is understood that J. S. Cannon, City, and others will begin the erection of a new distillery in the near future.

IRONTON, O.—Citizens' Committee, J. F. McConnell, Member, have been considering erection of steel mill here, which, with equipment, would cost about $110,000.

WARREN, O.—Van Farquarson and William Bowen, of Warren, O., have leased the old power house in Church St., that city, and will install machinery for the manufacture of sheet iron barrels, tanks, light plate and iron work.

TOLEDO, O.—Inman Colvin Mfg. Co. is to be incorporated with $25,000 capital to manufacture all kinds of concrete blocks, for the construction or ornamentation of buildings.

YOUNGSTOWN, O.—S. V. Huber & Co., Consult. Engrs., Pittsburg, Pa., are stated to be designing a lap weld pipe mill for the Youngstown Iron Sheet & Tube Co., at Youngstown, O., that will make lap weld pipe up to 12 ins. in diameter.

INDIANAPOLIS, IND.—It is stated that the Dennis Carbon Fuel Co., recently incorporated with $100,000 capital, will have a plant for the manufacture of fuel from earth and petroleum in operation near this city by Dec. 25. James Dennis, Richmond, Ind., is interested.

KENDALLVILLE, IND.—Plans have been completed for a mitten factory to be built by the Kendallville Mfg. Co. The factory will be 60 × 400 ft., of cement construction. Electricity will be used for power, heating and lighting.

EVANSVILLE, IND.—The John E. Wooley & Son Co. has incorporated with a capital stock of $10,000. The company will construct a large manufacturing plant at Fourth and Locust Sts. John E. Wooley is president.

GRAND RAPIDS, MICH.—American Machinery Co. has asked city for site, and proposes, it is said, to erect $20,000 factory, and to install machinery, which will make valuation of complete plant about $200,000.

GRAND RAPIDS, MICH.—Furniture City Brewery Co., according to reports, will soon let contracts for new buildings to cost about $75,000.

SOUTH HAVEN, MICH.—The Cable-Nelson Piano Co., Fulton and Elizabeth Sts., Chicago, Ill., are having plans made by A. M. Worthington, Arch., of South Haven, for a manufacturing plant to be erected here. The main building will be 2-story, 300 × 65 ft., of mill construction. There will be two wings at each end, 150 × 65 ft., each. There will also be a power plant, 60 × 60 ft., dry kilns and lumber sheds. The entire plant will be equipped with a sprinkler system. Approximate cost of plant is $100,000.

WARREN, ILL.—Warren Independent Steel Co., recently incorporated, has placed order for 50-HP. engine and 80-HP. boiler with Frost Mfg. Co., Galesburg, Ill. The company, of which C. F. Taylor is Pres., and J. L. Graham, Secy., will erect three buildings, including a main workshop, 60 × 100 ft., and a power house, 24 × 40 ft.

CHICAGO, ILL.—Illinois Commission & Manufacturing Co., recently incorporated with $40,000 capital, is to manufacture knit goods.

CHICAGO, ILL.—Addressograph Co. is having plans prepared by L. G. Hallberg for a manufacturing building. It will be an 8-story structure, covering 89 × 125 ft., at the intersection of West Van Buren and Peoria Sts., of fireproof construction, and will cost $200,000.

Glue factory of Armour Co., north of the stockyards, was damaged by fire Aug. 24 to extent of $100,000.

DULUTH, MINN.—Bids were opened at the office of Palmer & Hunt for construction of the new addition to the present plant of the Stone-Ordean-Wells Co., in the Fifth Ave. West wholesale district. Seven proposals were offered, but the contract has not been awarded yet. The estimated cost of the addition is $50,000. Bids will be offered at a later date for the construction of the warehouse and stable for the same concern, which will be erected at Third Ave. West and Commerce St. The Stone-Ordean-Wells Co. has plans for the expenditure of $65,000 for new improvements the present year.

MITCHELL, S. DAK.—It is stated that E. M. Sinclair, Mitchell, and P. S. Champlin, of Elk Point, S. Dak., will organize a company with a capital of $100,000, for the manufacture of the Skidmore wagon scale. No site for the proposed factory has been selected.

DENVER, COLO.—It is stated that the Hydrocarbon Manufacturing Co., 1320 Wazee St., Denver, is preparing to expend $500,000 in the construction of a new plant. F. M. Witall is a director.

BOULDER, COLO.—The Boulder Cold Storage & Ice Co. has incorporated with $60,000 cap. stock. G. W. Teal, John McInnes, P. J. Werley et al., are the incorporators. They plan to erect a cold storage and ice plant.

GREENVILLE, TEX.—Greenville Power & Manufacturing Co. has been incorporated with capital stock of $15,000, to establish and operate a planing mill and an electric light and ice plant. M. R. Graham, A. Edwards, G. W. Raum and W. H. Goolsby are interested.

SEATTLE WASH.—H. L. Bennett has permit to erect a 3-story frame box factory, to cost $35,000.

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ST. HELENA, ORE.—The Warren Lumb[illegible] Co. will erect a new sawmill to have a capacity of 20,0[illegible] ft. daily, to take the place of the mill of A. H. Tarb[illegible] recently destroyed by fire. H. T. Bennett and A. H. [illegible] G. L. Tarbell compose the company.

PORTLAND, ORE.—J. J. Cahill, of Denver, [illegible] organized a company here to construct a new pa[illegible] plant. John Thomas, of Kansas City, will design th[illegible] buildings and superintend the work of construction. Th[illegible] location of the plant has not yet been decided on.

ATHENA, ORE.—The Preston Parton Mill[illegible] Co. has purchased the Athena flouring mills at this pla[illegible] and will equip it with the latest milling machinery. [illegible] will have capacity of 300 bbls. daily. A new eleva[illegible] will be built.

SALT LAKE CITY, UTAH.—Utah Cement Pr[illegible]ts Co. has been organized here with $10,000 capital. [illegible] J. Tuddenham is Pres., and W. H. Bintz, Secy.

LADYSMITH, B. C.—The Ladysmith Iron [illegible], of which Messrs. Freel and Divisiond are p[illegible] will make extensive additions to their plant and eng[illegible] the manufacture of stoves on a large scale.

VANCOUVER, B. C.—It is stated that Messrs. [illegible]good and Bruder will enlarge their brewery plant.

BRANTFORD, ONT.—The pork factory of Fox [illegible] Co. was destroyed by fire. Loss, $70,000.

MISCELLANEOUS CONTRACTS.

LEVEE.—Des Moines, Ia.—John W. Budd, Cy. Engr., is to begin surveys soon for proposed levee improvements of this city.

OIL PIPE LINE.—Jennings, La.—Construction of oil pipe line from this place to Morgan City, 124 miles, is under consideration.

BOARD WALK.—Atlantic City, N. J.—City will, it is stated, replank the "board walk" for its entire length, at a cost of about $20,000.

TELEPHONE SYSTEM.—Salem, Ore.—Reported that new company will ask Council Sept. 6 for franchise for installing telephone system.

DAM.—Logansport, Ind.—Amos Palding, Cy. Engr., is reported to have plans well under way for new dam in Eel River at the light plant.

FIRE ALARM SYSTEM.—Bellaire, O.—Ordinance has been before Council authorizing Board Public Safety to purchase fire alarm system to cost not more than $4,000.

RIP-RAP.—New Rochelle, N. Y.—We are informed that about 2,000 cu. yds. rip-rap are wanted for New Rochelle. T. Kennard Thomson, 21 Park Row, New York, is Engineer.

REBUILDING PIER.—Ocean View, Va.—It is stated that Ocean View Pleasure Pier Co. will not rebuild its pier until next year, when a steel structure will be constructed.

PUBLIC COMFORT STATION.—New York, N. Y.—Bids are asked by John A Ahearn, Boro. Pres., until Sept. 14 for erection of public comfort station at East Broadway and Grand St.

REMODELING WHARF.—Fort Mott, N. J.—Bids are asked until Sept. 24 for remodeling and overhauling the wharf. Capt. Louis F. Garrard, Jr., Q. M. (Advertised, Engineering News.)

DREDGING.—Muskogee, Ind. T.—Company has been organized here to dredge Arkansas River to secure sand and gravel for building material, and will, it is stated, establish dredging plant.

DREDGING.—Portland, Me.—Bids are asked until Sept. 30 for necessary dredging about wharves at Forts McKinley, Preble and Levett, Portland Harbor. Capt. A. W. Yates, Q. M., U. S. A.

BOILER.—Wilmington, N. C.—Bids are asked until Oct. 6 for a boiler for the U. S. Suction Dredge "Cape Fear." Capt. R. P. Johnston, Corps of Engrs., U. S. A. (Advertised, Engineering News.)

GRAIN ELEVATOR.—Ottawa, Ont.—Plans for 2,000,000-bu. grain elevator to be erected by the Dominion Government at Port Colborne, Ont., have been prepared by J. A. Jamieson, Arch., Montreal, Que.

SUBWAY.—Chicago, Ill.—Property owners near Sacramento Ave. and Kinzie St. have made proposition to West Park Board looking to construction of subway on C. & N. W. Ry. at a cost of $38,190.

REPAIRING JETTIES.—New London Conn.—Bids are asked until Sept. 27 for repairing jetties at the mouth of the Connecticut River. Lt.-Col. C. F. Powell, Engrs. (Advertised, Engineering News.)

BREAKWATER.—Santa Rosa, Cal.—Councilman Wallace, Chn. Structural Committee, has recommended, it is stated, that a breakwater of solid masonry be erected along the bank of Santa Rosa Creek.

ISLES OF SAFETY.—New York, N. Y.—Municipal Art Commission has approved the plans for the two isles of safety to be constructed in Long Acre Square, opposite the new Hotel Astor, at a cost of $10,000 each.

PIER WORK.—New York, N. Y.—Contract for widening, extending and repairing pier at foot of 44th St. for city, bids for which were received Aug. 25, was let to G. B. Spearin, 17 Battery Pl., New York, for $144,871.

TELEPHONE COMPANY.—Toronto, Ont.—A telephone company has been organized with $100,000 capital to begin business in Essex County. C. W. Taylor, R. Brooks, J. A. McRae, all of Detroit, Mich., are interested.

STEEL WORK.—Washington, D. C.—Bids are asked by Bureau Yards and Docks, Navy Department, until Sept. 24 for steel work for coal-handling plant at the Navy Yard, Washington, D. C. Mordecai T. Endicott, Ch. Bureau.

DOCK IMPROVEMENTS.—Cleveland, O.—Ordinances have been before Council providing for expenditure of $13,000 in improving docks south of Columbus St. bridge, and $10,000 for docks south of Jefferson St. bridge.

PORTLAND CEMENT.—Boise, Idaho.—Utah Portland Cement Co., Ltd., Salt Lake City, Utah, was low bidder Aug. 25 for furnishing 14,000 bbls. Portland cement for use on Minidoka irrigation project, its bid being $41,300.

LEVEE.—Shreveport, La.—Bids are asked by Commissioners Caddo Levee District, S. N. Kerley, Secy., 518 Spring St., until Sept. 21, for constructing Riverdale levee, about 47,000 cu. yds., and Dixie levee, about 52,000 cu. yds.

RIVER IMPROVEMENT.—Petersburg, Va.—Atlantic Dredging Co., Philadelphia, Pa., which secured contract for improvement of Appomatox River, at this place at a bid of $138,500, will commence work, it is stated, about Sept. 15.

TRANSFER ELEVATOR.—Cincinnati, O.—Union Dock Co. has been incorporated with $50,000 capital to build a river and rail transfer elevator in conjunction with the new terminals of L. & N. R. R., either at foot of Vine St. or Main St.

BARGE CANAL.—Albany, N. Y.—Three contracts, involving expenditure of about $5,000,000, are now awaiting final action by the Barge Canal Advisory Board, and it is stated that bids for the work will be called early in this month.

LEVEE RECONSTRUCTION.—Sacramento, Cal.—Bids are asked by M. J. Desmond, Cy. Clk., until Sept 12, for reconstructing section of Y St. levee extending from [illegible]land at Ninth St., westerly to its junction with Front River Levee.

DREDGING.—New York, N. Y.—Bids are asked until Sept. 10 for dredging in Keyport Harbor, N. J. Specifications for above work are on file at office of Engineering News, 220 Broadway, New York. Col. W. R. Livermore, U. S. Engrs.

TELEPHONE SYSTEM RECONSTRUCTION.—San Diego, Cal.—Local plant of Sunset Telephone Co. is to be reconstructed, under direction of Resident Manager Lewis. Overhead wires in certain sections are to be placed in underground conduits.

CRANE.—Washington, D. C.—Bids are asked by the Navy Department until Sept. 21, for two boat overhangs and locomotive cranes, for U. S. Naval Academy, Annapolis, Md. Chas. H. Darling, Secy. Ernest Flagg, Arch., 35 Wall St., New York.

CHIMNEY.—New York, N. Y.—Alphons Custodis Chimney Construction Co., Bennett Bldg., New York, has designed and will supervise construction of 300 ft. high, circular chimney, to be erected at a cost of about $25,000, for the New York Steam Co.

TIMBER LAND.—Mississippi.—Edward Hines, of the Edward Hines Lumber Co., of Chicago, Ill., has purchased 50,000 acres of yellow pine land in Mississippi. The land lies 20 miles north of Groveport, and is penetrated by four railroads.

PARK.—Cleveland, O.—Ingersoll & Kattenstroth have secured a tract of land on which they will erect an amusement park similar to Luna Park at Coney Island. Surveys are stated to be under way, and it is proposed to lay the foundations this fall.

TERRA-COTTA.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, Navy Department, until Sept. 13 to furnish all terra-cotta work required in the erection of Building No. 118, Navy Yard, Washington, D. C. H. T. B. Harris, Paym.-Gen., U. S. N.

DIKE AND CONCRETE WALL.—Painted Post, N. Y.—Bids are asked by the Board of River Commissioners until Sept. 24, for the construction of river protection, dikes and concrete wall. D. F. Lane, Pres.; H. L. Hollister, Sec'y. (Advertised, Engineering News.)

TELEPHONE SYSTEM.—Buffalo, N. Y.—Buffalo, Rochester & Pittsburg R. R. proposes, it is stated, to equip the entire line of the road between Rochester, Buffalo and Pittsburg with a telephone system for the dispatching of trains and carrying on of business of the road.

PARK IMPROVEMENTS, PLAYGROUNDS.—San Francisco, Cal.—Bids will be received by Chas W. Fay, County Clk., until Oct. 3 for purchase of bond issue, $740,000 of which is for playgrounds, $328,000 for Golden Gate Park and Presidio Extension and $292,000 for Mission Park.

TELEPHONE LINE.—Montrose, Colo.—Specifications are on file at office of Engineering News, 220 Broadway, New York, for construction of 28-mile telephone line in connection with Uncompahgre Valley reclamation project. Bids are asked until Sept. 22, as advertised in Engineering News.

PORTLAND CEMENT.—New York, N. Y.—Bids are asked by Commissioner of Docks, Battery Pl., until Sept. 13 for furnishing and delivering about 10,000 bbls. Portland cement. Bids are also asked for dredging about 10,000 cu. yds. in North, East and Harlem Rivers. Maurice Featherson, Comr.

RIPRAPPING.—New York, N. Y.—New York Central & Hudson River R. R. has awarded contract to Charles A. Sims & Co., Harrison Bldg., Philadelphia, Pa., for riprapping of embankment of the Harlem Division, within the limits of the Croton watershed, and between Bedford and Croton Falls, New York.

REPAIRING FLUME, ETC.—Weaverville, Cal.—Local reports state that the company owning the Lagrange Mine in Oregon Gulch Mountains, between this place and Junction City, is preparing to spend $250,000 on repairing its flume, which is 11 miles long, and constructing 11 miles of mountain wagon road.

REPAIRING GUIDE CRIBS, ETC.—Zanesville, O.—Bids were opened at U. S. Engineers' Office, Aug. 28, for repairing guide cribs and dams in Muskingum River. Clifton Bros., Eagleport, O., at $5,676, were low bidders. Work will require about 10,000 ft. of timber, 1,040 cu. yds. concrete and 500 cu. yds. excavation.

CANAL WORK.—Ottawa, Ont.—E. J. Walsh, C. E., has been appointed engineer in charge of surveys in connection with the Trent Valley Canal. One of these will be along the Port Hope route to Lake Ontario, and the other will be for the purpose of determining the best channel between Lake Simcoe and Georgian Bay.

SEA WALL.—Galveston Tex.—The following bids were received Aug. 24 by Capt. H. M. Hoffman for constructing sea wall at Fort Crockett; itemized bids for this work are given under Contract Prices: J. M. O'Rourke & Co., $259,825; William S. Hipp, $265 107; Suderman & Dolson, $277,830; Isaac Heffron, $261,890.

DAM.—Hendrix, Pa.—Perkiomen Creek Copper, Gold and Prospecting Co. wants estimates on a dam to be built at Hendrix, Montgomery County, Pa., estimates to be in on or before Oct. 15. Wm. F. Young, President, is at Hendricks to give instructions of what is wanted. I. A. Hortman, 3148 N. Park Ave., Philadelphia, Pa.

ENGINES, GENERATORS, MOTOR GENERATORS AND SWITCHBOARD.—West Point, N. Y.—Bids are asked until Oct. 6 for the construction and installation of Corliss engines for electric lighting; also for the construction and installation of generators, motor generators and switchboard. Address Quartermaster, U. S. M. A. (Advertised, Engineering News.)

DAM, FLUME.—Redding, Cal.—The Redding Gold & Copper Co., operating largely on Clear Creek, has empowered the executive board to install the dam on Clear Creek and get as much of the flume for the power plant constructed as is possible this season. About 30,000 ft. of lumber will be required for the temporary flume. C. S. Winchell is Pres. and Thos. Gilbert, Secy.

WROUGHT IRON, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, Navy Department, until Sept. 27, at the navy yards, etc., Norfolk, Va., New Orleans, La. and Mare Island, Cal., 218 tons, more or less, of wrought iron, flat, round, and square, and 1,435 tons, more or less, of steel, comprising bars, shapes, billets, forgings, and plain and galvanized plates. H. T. B. Harris, Paym. Gen., U. S. N.

BEACH RESORT.—New York, N. Y.—It is reported that Pennsylvania R. R. Co., which controls the Long Island R. R., is planning to make a beach resort at Rockaway that will rival Coney Island. An extensive freight terminal and car yard on Jamaica Bay side is projected, and on the ocean side of the plot, options on which are said to have been secured, will be erected an amusement park, with attractions on same elaborate scale as at Coney Island.

OIL COMPANIES.—Arizona and Texas.—J. F. McGee and J. J. Shea have incorporated the Osage Oil Company with principal places of business at Phoenix, Ariz., and Independence, Kan. Capital stock is $1,000,000. The Bankers Oil Producing Co. has been incorporated by H. B. Leavens, C. M. Sheldon and J. P. McCarthy with principal place of business at Phoenix, Ariz. Capital, $500,000. Glass Oil Co., of Sour Lake, Tex., has been incorporated with $10,000 capital by Geo. H. Glass, Sour Lake, and F. A. Glass, Hearne, Tex.

DRAIN.—Buffalo, N. Y.—Following are three lowest bids received by Board Public Works, Aug. 30, for constructing 8 × 8 2-3 ft. concrete and metal drain in Clark and Skinner Canal; all bidders from Buffalo: A. P. Kehr, Church St., $59,970; Buffalo Dredging Co., 306 D. S. Morgan Bldg., $69,850; J. W. Dwyer, 253 Franklin St., $73,299. The work requires 18,150 cu. yds. excavation, 40,000 cu. yds. filling, 5,222 cu. yds. concrete, 1,628 cu. yds. broken stone, 155,200 ft. B. M. hemlock timber, 42 tons 16-in. iron pipe, 26½ tons 12-in. iron pipe, manholes, expanded metal, etc.

QUAY WALLS AND PIER.—Portsmouth, N. H.—Bids were received by Bureau Yards and Docks, Sept. 3, for constructing quay walls and pier at Portsmouth Navy Yard, $200,000 being available for the work. The only bid received was from Roy H. Beattie, 57 North Main St., Fall River, Mass., and was as follows: All stone retaining-wall construction for quay walls and pier complete, $283,037; deduct from preceding bid if east quay wall is omitted, $86,200; deduct if west quay wall is omitted, $34,000; deduct if pier is omitted, $151,037; alternate bid on bidders own plans, etc., $199,900.

LEVEES.—New Orleans, La.—Contracts are to be let soon, according to reports, for the construction of a new levee at Bel Air and St. Thomas Church, in Plaquemines Parish. Contracts will also be let for the raising and enlarging of the Deer Range and Junior levees, and the construction of a new levee at the upper line of Pointe Celeste. A new levee is also necessary at "Socola Canal," the construction of which will be considered by the proper board. All above levees are in Lafourche Basin Levee District. Surveys are likewise under way for raising and enlargement of levee line in upper end of Buras Levee District, and also for enlargement of over two miles of levee in lower Duras District. Frank M. Kerr, New Orleans, is Ch. Engr., State Board.

OIL COMPANIES.—New York, N. Y.—Iroquois Oil & Gas Co., Salamanca, N. Y., has been incorporated with $1,000,000 capital. Frank Rhodes, Edward Bolard, Salamanca; Emmons J. Gardner, Cattaraugus, N. Y., and Charles L. Tuttle, Rochester, N. Y., are interested.——The Murphy Oil Co., Los Angeles, Cal., has been incorporated with a capital stock of $2,000,000. M. M. Grigg, E. N. Murphy, W. Plotts, F. C. Owens and E. W. Bacon are directors.——The Chelsea Oil & Gas Co., Phoenix, Ariz., has been incorporated with a capital of $1,000,000. C. S. Palmer, A. E. Lombard, G. B. Montgomery are directors.——The Big Four Oil & Gas Co., Phoenix, Ariz., has been incorporated with a capital of $1,000,000. Principal place of business is Phoenix, Ariz., and Chanute, Kansas. Wm. Cooper and J. H. Dennis are Directors.

DRAINAGE WORK, ETC.—St. Cloud, Minn.—A. E. Morgan, Dept. Co. Surv., states that on Sept. 28, at Litchfield, Minn., bids will be received for the construction of about 50 miles of open ditch. These ditches are too large to be dug without the use of a dredging machine and, unless the owner of a machine shall bid on them, it is not probable that any bids will be received. Later in the fall other ditching jobs will be sold to the amount of about 800,000 cu. yds. in all. Any one having a machine to use on these ditches could probably secure these contracts at from 13 cts. to 20 cts. per cu. yd. The ditches have a slope of 1 to 1 and a depth varying from one to 21 ft. The contracts must be completed by January, 1906. John N. Gaynor, of Litchfield, lets the work, and Arthur E. Morgan, of St. Cloud, is the Engineer. So many ditches have been planned in Central Minnesota, to be constructed during the season of 1905, that it is going to be very hard to find contractors to handle all the work. Perhaps 10,000,000 cu. yds. of excavation have been planned for the coming season within 100 miles of Minneapolis.

DRY DOCK.—New York, N. Y.—Bids were received by Bureau Yards and Docks, Washington, D. C., Sept. 3, for constructing granite and concrete dry dock at Navy Yard, New York. Limit of cost of entire work, including caisson, pumping plant, etc., is $1,000,000. The following bids were received on item 1, which is for the work complete, in accordance with Government plans and specifications: E. C. Moore, 45 E. 42d St., New York, $946,000; John Pierce, 277 Broadway, New York, N. Y., $833,000; Keystone Contracting Co., 112 E. Jefferson St., Syracuse, N. Y., $988,000; Geo. B. Spearin, 17 Battery Pl., New York, $673,292; Jenks & Farrington, 130 Pearl St., New York, $996,400 (conditional); F. W. Carlin Construction Co., 26 Court St., Brooklyn, N. Y., $987,000; R. G. Packard Co., 130 Pearl St., New York, $973,000; The New York Continental Jewell Filtration Co., 15 Broad St., New York, $899,400; United Engineering & Contracting Co., 13 Park Row, New York, $839,414. The Scofield Co., 21 Park Row, New York, offered five bids, ranging from $1,001,785 to $1,316,929 on item 8, which calls for proposals for completed structure, with such modifications as the bidder may desire.

MINING NOTES.

MILL.—Park Valley, Utah.—Owners of Sunrise Mine at this place are said to be considering erection of mill. A. Lochwitz is Mgr.

MILL.—Park Valley, Utah.—Owners of Sunrise Mine the Gold Road Mining & Exploration Co. is to equip its property with five Huntington mills for regrinding.

MINING MACHINERY.—Boise, Idaho.—It is reported that machinery will be installed at the Rico property in the Black Warrior Mining District. F. J. Conroy, Wampa, Idaho, may be interested.

COAL COMPANY.—Mena, Ark.—Mena Coke & Coal Mining Co. has been incorporated with $200,000 capital to manufacture coke, mine coal, iron, lead and zinc; quarry and manufacture slate; bore for oil and gas; build trams and operate commissaries. M. B Mayhar, E. Anderson, W. J. Gallagher, Mord Roberts and W. L. Kellogg are interested.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

SMELTER.—Boise, Idaho.—It is reported here that a 50-ton jacket smelter is to be installed on Greyhound Mountain this fall. Chas. M. Hays and G. F. Graves are interested in this property. The plant will cost $25,000.

DREDGES.—California.—A company, in which John Hays Hammond is interested, has secured and set to work two dredges in the Yuba gold district of California, at a cost of $100,000 per dredge. Each dredger has a capacity to treat 3,000 cu. yds. of gravel per day. If these dredgers are a success, it is contemplated to add a dozen more to the plant. There are 3,000 acres controlled by this syndicate, enough to last, by estimate, 25 years.

MINE DEVELOPMENT.—Utah.—The Finley Gold and Copper Mining & Milling Co. has driven a 230-ft. tunnel on their property in the La Sal District, Utah. A crosscut has been run to cut the lead, and indications point to there being a good deposit of copper ore which it is expected to reach soon. C. A. Finley, Castleton, Utah, Vice-Pres. and Gen. Mgr. of the company, on a recent prospecting trip, discovered a rich lead of ore, containing copper glace and native silver, and having the appearance of being good gold-bearing rock.

MINING COMPANIES.—New York, N. Y.—Dixie Gold Mining & Reduction Co., of Norman, Okla., has been incorporated with $5,000,000 capital. D. L. Larsh, C. A. Harrington and W. H. Johnson are interested.——Gilt Edge Mining Co. has been incorporated with $200,000 capital. S. H. Murphy, of Florence, Idaho, is interested.——Northwestern Mining Co., of Burke, Idaho, has been incorporated with $1,000,000 capital. Jas. Girton, C. F. Kratzen, T. H. Scott and others are incorporators.——Legal Tender Mining Co., Ltd., of Wallace, Idaho, has been incorporated by A. J. Burlett, Elise Heller, F. E. Smith.——Challenge Gold Mining & Smelting Co., of Colorado Springs, Colo., has been incorporated with $500,000 capital. R. A. Wright, F. M. Clancy and C. H. Becker are interested.——Lewiston Mining & Milling Co., of Lewiston, Idaho, has been incorporated with $2,000,000 capital, by G. W. Thompson, S. P. Fitzgerald, and A. D. Gritman.

U. S. POSSESSIONS AND CUBA.

BUILDING.—Honolulu, T. H.—C. S. Holloway, Supt. Pub. Wks., is to ask the legislature for a $150,000 appropriation for a new government building.

TIMBER WHARVES.—Guanatanamo, Cuba.—The contract for the construction of two timber wharves at the Naval Station, Guanatanamo, Cuba, has been awarded to the Snare & Triest Co., 39 Cortland St., New York, at $17,416. Bids for the work were received by Bureau Supplies and Accounts, Washington, D. C., Aug. 16.

TOW BOAT.—Cuba.—Specifications in Spanish are on file at office of Engineering News, 220 Broadway, New York, for a tow boat of 200 to 250 I. H. P. for use at dredging plant of Port of Havana. Bids are asked until Oct. 15, as stated in our issue of Aug. 18. A few of these specifications are for distribution.

ELECTRIC PLANT.—Manila, P. I.—The Bureau of Engineering is considering the question of harnessing the Botocan Falls and the Rivers Caliraya and Lomot, in the Province of Laguna, and the Angat River at Bulacan, and the transmission of electric power thus procured to Manila and vicinity. It is estimated that between 30,000 and 40,000 HP. can be generated by these combined schemes. J. W. Beardsley is Consult. Engr., Philippine Commission.

MEXICO.

RAILWAYS.

CANANEA.—Cananea Copper Co. has secured concession to build a line from Cananea to a connection with the Sonora Ry. in one direction and to Chihuahua connecting with the Mexican Central in another.

CHIHUAHUA.—A syndicate of American capitalists have organized the American-Mexican Lumber Co., and, as was stated in our issue of Sept. 1, have purchased 500,000 acres of pine timber land in Western Mexico. Construction of a 75-mile railroad to connect the timber tract with R. G., M. & P. R. R. at Casas Grandes, is contemplated. Benjamin B. Cheney, Boston, Mass.; Rutherford Trowbridge, New Haven, Conn., and Harry M. Robinson, Youngstown, O., are interested.

CITY OF MEXICO.—Department of Communications has granted an extension of time for the construction of the Atlixto & San Rafael R. R. to April 6, 1909. A new section of ten kilometers must be finished by April 6, 1906.

MAZATLAN, SINALOA.—The Occidental Construction Co., of Mazatlan, has abandoned the project to build a railway from that city to Topia, and it is said will probably build to the town of Sinaloa. Harold B. Miller, a representative of the company is now actively engaged in an attempt to interest property holders on the proposed line to aid the project.

NACOZARI.—El Paso & Southwestern R. R. is stated to be having surveys made for an extension of the road from this place to Topolobampo on the Pacific Coast. H. J. Simmons, El Paso, Tex., is Gen. Supt.

OAXACA.—North-American & Mexican Development Co. has been incorporated with $250,000, and proposes to build a railroad from Oaxaca, south of Mexico City, to some point on the Tehuantepec railroad. The distance is 250 miles. Henry L. Choistry, Guadalajara, Mex., and W. W. Nelson and T. A. Whitten, Kansas City, Mo., are interested.

VILLA DE SATULA.—Concession has been granted for extension of Merida-Pto R. R., State of Yucatan, from the main system to Villa de Satula, a distance of about 80 miles. Rudolfo G. Canton, Merida, Pres. and Gen. Mgr.

STREET AND ELECTRIC RAILWAYS.

AUTLAN, JALISCO.—Surveys are well advanced on project to construct an electric railway from the Rosa Amarilla mining property, in the Autlan district, to the Pacific port of Navidad. Power for the generation of electricity will be from water in the Cusalapa and Santa Maria Rivers. It is estimated the cost will be about $750,000. It is stated that M. D. Watson, Chicago, Ill., who is largely interested, will probably let the contracts for the construction and equipment of the line in a short time.

MONTEREY, NUEVO LEON.—The following aditional information is reported in regard to the electric street lines to be constructed in Monterey. The initial lines will, it is estimated, cost about $2,000,000, and length of the new system will be about 50 miles. Construction will commence within 60 days and a portion of the road be in operation by the end of the present year. All material will be purchased in the United States. The company will construct a large hotel, bath house and large pavilions at Topo Chico, a suburb of the city, where there are medicinal springs. Edward F. Walker, Drexel Bldg., Philadelphia, Pa., has closed the deals for the acquisition of the existing lines, and the Mackin and Dillon concession, and William T. Wheeler and T. A. Beckett are associated with him as incorporators of the company.

LIGHT AND POWER PLANTS.

TAMPICO, TAMAULIPAS.—The old electric light and power company will expend $30,000 in new machinery. Cecil Preston is Engr. in charge.

BUILDINGS.

CITY OF MEXICO.—It is stated that a foreign syndicate is negotiating for the lease of El Riego hotel and bathing establishment at Tehuacan, Mexico, and that extensive improvements will be made at that resort if the transaction is consummated. Dr. G. Pagenstecher, City of Mexico, may be interested.

CITY OF MEXICO.—Engr. Bernard, City of Mexico, has submitted plans for new National theatre, to be constructed by the federal government, to the Department of Public Works, and a commission of engineers has been appointed to study the plans, and if approved construction will commence in November.

CITY OF MEXICO.—We are informed under date of Aug. 22 that Railroad and City Y. M. C. A. has not yet completed plans for its new building. G. I. Babcock, Secy., was to leave for United States Aug. 27 to further arrange for proposed work.

GUADALAJARA, JALISCO.—Federal Government is to expend $180,000 on a military barracks and hospital to be constructed in Guadalajara. Plans for the structures have been approved, and work will commence very soon. Major Juan B. Avila, of the Engineer Corps will have charge.

MONTEREY.—Alfred Giles, Arch., San Antonio, Texas, is preparing plans for a large office building which will be constructed here for Francisco Belden. Considerable structural steel will be used in the building.

WATER-WORKS.

CHIHUAHUA.—Preparations are being made, according to reports, for increasing city's water supply by installing large pumping plant on Chubiscar River. Matter of filters is also being investigated. Enrique C. Creel is Governor.

CORDOBA, VERA CRUZ.—Mexican Construction & Engineering Co., City of Mexico, which has contract for constructing water-works and sewerage for this city has let contract to the Mexican Clay Mfg. Co., City of Mexico, for about 40,000 meters of clay pipe for the sewerage work at Cordoba. Reports of Aug. 25 state that all the other contracts, such as for iron piping, etc., will be concluded soon, so that the work will be able to proceed immediately.

MEXCALOPA, VERA CRUZ.—Department of Fomento has granted a concession to agriculturists of Mexcalopa, to divert 32,000 liters of water, per second, from the La Quemada river for irrigation, 289,000 hectares of land will be irrigated.

MANUFACTURING PLANTS.

CITY OF MEXICO.—The Compania Industrial Durimentes de Camento Armado, S. A., has been organized here with a capital stock of $210,000 to establish large plants for manufacturing railroad ties, house beams and flooring; cement and steel will be the materials used. The company will establish plants in this city, Vera Cruz, Tampico and Coatzacoalcos. Sebastian Camacho is Pres. of the company and Carlos Eisenmann, Vice-Pres. and Gen. Mgr.

CITY OF MEXICO.—P. C. Smith, City of Mexico, has taken out three patents in Mexico, for manufacture of a new fuel, asphaltum blocks and ornamental brick. He proposes to install a plant of about 80 tons capacity in this city for manufacture of the fuel.

CITY OF MEXICO.—It is stated that Trinidad Garcia is making preparations to establish a sulphate of copper factory in the city of Mexico. He is to use a special process of his own invention.

MISCELLANEOUS.

MINING DEVELOPMENT.—Saltillo.—O. Zambrano, Monterey, will develop mining properties which he has acquired in this state.

REDUCTION WORKS.—Zacualpam.—Reduction works will be established at the San Ignacio mine at Zacualpam. Carlos Eisenmann, City of Mexico, may be interested.

CYANIDE PLANT.—The National Development Co. is having plans prepared for a 100-ton cyanide plant which it will install at its San Jose de Gracias mine, in the Toliman district, this state.

STONE QUARRIES.—Guadalajara.—Charles Carroll, Guadalajara is reported interested in project to operate large grindstone quarries located in the vicinity of Guadalajara, for which a substantial lot of stone machinery will be bought in the United States.

HYDRAULIC PLANT.—Campo Santo Niño, Sonora.—The Yaqui Copper Co. is arranging to install at once at its mines at Campo Santo Niño a 1,000-HP. hydraulic plant to operate its 2,000-ton smelter, drills, etc. The source of power will be the Yaqui River.

CYANIDE PLANT.—Animas, Durango.—A 30-ton cyaniding plant is to be erected by Laveago Bros. and Victor Gonez at Animas, according to reports.

MORELIA, MICHOACAN.—John H. Gregg, Vice-Pres. Northwestern Lumber Co., Grand Rapids, Mich., has been making an investigation of the hardwood timber of this state and other parts of Mexico with a view of establishing lumber mills in this country.

SMELTING PLANT.—Chihuahua.—It is reported that the Encinillas Mines, Ltd. Chihuahua, will increase its capital from $500,000 to $1,250,000 in order to make improvements which will include increasing capacity of the smelting plant from 160 tons to 300 tons daily.

STAMP MILL.—City of Mexico.—The twenty-stamp mill at Cerro Prieto, the gold property of the Nogales Copper Co., 35 miles east of Magdalena, Sonora, Mexico, has been shut down and it is said that a mammoth 100-stamp mill will be erected. Frank Cox, Supt., is in charge.

STAMP MILL, ETC.—Bolanos.—Bolanos Mining Co., 518 Mission Trust Bldg., St. Louis, Mo., recently incorporated with $5,000,000 capital stock, is now developing and will extensively increase its operations at Bolanos, located 150 miles southwest of Zacatecas, State of Jalisco. The company has acquired a number of properties for development, and will erect a 150-ton stamp mill as well as install a considerable quantity of other machinery. W. C. Stith is Pres., and J. B. Ysabel, Gen. Mgr.

TIMBERLAND DEVELOPMENT.—Campeche.—The government has granted a concession to Jose Ferrel for the exploitation of 2,000,000 acres of timber land situated in this state. Under the terms of the concession Mr. Ferrel is given the right to utilize the trees for lumber or to extract gums and resins for a period of three years.

READERS' WANTS

This Department contains special requests, a detailed items, from persons in the market supplies, and from others asking for the names and addresses of firms manufacturing certain tools, machi and supplies required for work in which they are interested. ENGINEERING NEWS will be glad to fur at once, free of cost, names and addresses of firms making the machinery or material desired, after which item will appear in this column, UNLESS OTHERWISE REQUESTED, which request will be hon absolutely. The information in all cases will be sent to our advertisers handling the mat wanted, or to other firms should it be out of the line of our advertisers. Every day we are receiving s requests with the understanding that it must not appear in the paper.

JOIST HANGERS.—Harriman, Tenn.—F. J. Manley, Cy. Engr., is in the market for joist hangers, and wants prices.

ORANGE PEEL DIPPER.—Watertown, N. Y.—C. C. Burns, Contractor, wants a ½ or ¾-yd. orange peel dipper for a dredge.

JAIL WORK.—Los Angeles, Cal.—The Union Iron Works, Molino and Palmetto Sts., wants names of manufacturers of jail work.

ROCK CRUSHERS.—Richmond, Va.—W. H. Dunn, 211 East Broad St., wants names and addresses of manufacturers of rock crushers.

DRAFTING ROOM SUPPLIES AND SURVEYING INSTRUMENTS.—Charleroi, Pa.—Robt. C. Brown, 821 McKean Ave., wants catalogues from firms manufacturing the above.

SMELTING FURNACE.—Norton, Va.—A. D. Branham, Pres. Va. Oil, Coal & Mineral Co., is in the market for a smelting furnace, and wishes to be put in correspondence with such firms.

BALLAST AND RAIL LOADERS AND UNLOADERS.—Brisbane, Australia.—William Pagett, Ch. Engr., Queensland Railways, writes for information regarding rail loading and unloading machines.

TUNNEL CONTRACTORS.—St. Catharines, Ont., Can.—J. H. Armstrong, Consult. Engr., St. C., P. & W. El. Ry., wants to get into communication with contractors prepared to handle rock tunnel work under water.

SCALES.—Chattanooga, Tenn.—D. Lee Wardroper, C. & M. Engr., 50 Chamberlain Bldg., is in the market for scales for weighing mine cars while they are in motion. The cars are to be attached to a hauling cable.

BRIDGE INSPECTING ENGINEER.—Clarksville, Va.—H. Gordan and W. H. Russel, of the Bridge Com., want to be put into communication with an engineer to inspect the erection of a new bridge over the Dan and St Rivers at the foot of Main St.

CREOSOTING PLANT.—Birmingham, Ala.—Du Lallande Bros., Contractors, want to be placed in munication with firms erecting and furnishing the terial for a small creosoting plant, as they intend to such a plant for creosoting wood blocks for street pa

ELEVATORS, MAIL CHUTES, TUBES, ETC.—Ber Germany.—Louis J. McGee, Dir. Allegemeine Elektric Gesellschaft, 25 Broad St., New York, is in the market elevators, labor-saving devices, such as arrangement conveying mail, drawings, etc., for a proposed office building in Berlin.

CONTROLLING FLOW OF WATER.—New York, N. —A correspondent wishes to secure the names and addresses of firms manufacturing devices for controlling t flow of water by means of steam pressure, and also b means of changing the temperature. Address "E. H. F., care of Engineering News, New York.

MINING MACHINERY, PUMPS, HOISTING ENGINES TRAMWAY, REDUCTION PLANT, ETC.—Baltimore, Md —The Maryland Flint & Spar Co., Clarence Bennett, Secy. and Treas., 514 West Banklin St., will probably soon be in the market for mining machinery, etc., as noted above, depending upon the progress of development.

AIR COMPRESSOR (1), AIR LIFE PLANT (500,000 gals.), BOILERS (600 HP.), BUILDING (1 story), CEMENT FLOORS, ELECTRIC PLANT (5,200 lights), HYDRANTS (2½ ins.), WATER AND ELECTRIC METERS, PUMPING ENGINES (500,000 gals), STEEL SMOKESTACKS, STAND-PIPE (1,000,000 gals.), WATER PIPE (1,500 tons of 8-in.), WELL PUMPS (500,000 gals.), WELLS (three 800 ft. deep each).—Columbia, Mo.—The Board of Public Works, W. H. Cook, Chn., is prepared to receive catalogues of firms making the above. Bids for doing the work, etc., will be asked later.

COAL LAND DEVELOPMENT.—Pachuca.—It is reported that rich coal beds which were recently discovered in this state have been sold to an American syndicate for $132,000 gold and that the new owners will install a large amount of new machinery for the purpose of exploiting the beds on a large scale. The names of the purchasers are not given.

AGRICULTURAL DEVELOPMENT.—City of Mexico.—The Central American Agricultural Co., of New York city, has been incorporated with $300,000 capital to carry on business in the Republic of Mexico and other countries of Central America and in the United States. W. Hector Huhum, Edward J. Maroney, Harold C. Vaughan, Henry C. Eldert and Frederick Rosendale, New York city, are Directors.

MINING MILL.—City of Mexico.—Los Ocotes Mining & Milling Co. expects to erect a mill at the property very soon. The company has merged interests with the Compañia Minera Los Ocotes. The incorporators of the new company are S. C. Schutz, Pres.; R. A. Mills, Secy.; Thomas P. Kesler, Treas.; James H. White, Roy S. Goodrich. The officers of the company are at Coliseo Nuevo, No. 4, City of Mexico.

MINERAL LAND DEVELOPMENT.—Urique, Jalisco.—The Mexican Government recently granted a mineral concession to Bernardo Garcia and Buenaventura Bacera, of this place, to operate for a period of three years a tract of mineral land, 18 kilometers square, situated in this state. Included in this tract is the famous Lauvia de Oro mine, which property has been developed within a few months to show ore in sight of more than $2,000,000 gold.

COAL LAND DEVELOPMENT.—Mier, Tamaulipas.—The Compañia Explotadora de Carbon, which was organized with a capital stock of $700,000 for the purpose of developing coal fields in Mexico, owns 500,000 acres of coal lands near here which it will work on a large scale. It is stated that in its preliminary work the company has cut six veins of coal in sinking 60 ft. the lowest of which is 27 ins. thick. The coal assays 65% carbon. This company also owns extensive coal fields in the state of Michoacan which it will develop.

FOREIGN CONTRACTS—EXPORT NEWS.

RAILWAY EXTENSION.—Servia.—The Government proposes to raise a loan of $6,000,000 for the purposes of extending the railway system of the kingdom.

SUGAR FACTORY.—Germany.—The largest sugar factory in Germany, Kulmsee, near Thorn, West Prussia, was burned, Aug. 28, with a loss of $1,250,000.

MANUFACTURING PLANT.—Russia.—It is stated that the Government has decided to open finishing works at Lodz especially for the stuff woven on the hand looms of peasants at and near Lodz.

RAILROAD CARS.—Argentina. Argentina Government Railways has closed an order with the Middleton Car Works of Middleton, Pa., for 640 freight cars, and an order with the Wason Mfg. Co. for 38 passenger, sleeping and baggage cars.

RAILWAY.—Brazil.—Date for receipt of tenders for construction of railway from Ilheos to Conquiston has been charged from Sept. 22 to Oct. 22. Proposals may be made in English, and should be addressed to the Secretary of Agriculture, Bahia, Brazil.

RAILWAY.—Africa.—Zanzibar R. R. Co. has been incorporated in New Jersey with $100,000 capital to build a 20-mile interurban railway in Zanzibar, East Coast of Africa, for carrying spices. Arnold, Cheney & Co., 158 Water St., New York, are stated to be interested.

WATER-WORKS; DRAINAGE.—Bulgaria.—The Municipal Council of Varna has offered three prizes of $2,400, $1,600 and $1,000 for the best schemes for supplying that town with water, and for the construction of a drainage system. Competitors must submit with their plans an estimate of the cost of the work.

STEEL RAILS.—Netherlands.—The Municipal Council of the Hague will be prepared to receive tenders Sept. 22 for supply of from 8,000 to 9,000 tons of steel rails, including appurtenances, for electric tramways. Conditions and drawings may be obtained on payment of 31 cents from Gemeente Werf at the Hague.

PLOUGHS AND AGRICULTURAL MACHINERY.—Bulgaria.—The Directors of the Agricultural Bank of Sofia are stated to have decided to purchase 5,000 iron ploughs, 200 grain-sorting machines, 200 machines for granulating maize, and 500 harrows, and will invite the best known manufacturers to forward specimens and prices.

GOLD FIELD DEVELOPMENT.—Japan.—The Government has issued a proclamation making complete preparation to develop gold fields recently discovered in the province of Iwate. Government engineers estimate that these fields will yield gold to the value of $500,000,000, and they are now preparing to start mining operations.

RAILWAYS.—Italy.—Provincial authorities of Central Italy have approved a subsidy of $320 per mile per year for 70 years for the following railway projects, and it is expected that the Government will contribute a still larger figure: Civitavecchia-Allumiere—Torfa-Orte; Civitavecchia-Gallese-Orte; Subiaco-Segni; Viterbo-Valentano; Corneto-Vetralla.

OCEAN CABLE LINES.—Germany.—The German & Netherland Telegraph Co. has been formed, with central office at Cologne, to construct and operate a new ocean telegraph line, whose cables are to connect the island of Celebes (Dutch East Indies) with the island of Yap, whence one cable is to reach Shanghai, the other the island of Gaum, where it communicates with the Pacific cable of the Commercial Cable Co. The working capital of this new line is $1,666,000; the estimated cost of the cable lines, $3,451,000.

RAILWAY.—Italy.—A project for building a railway between Civitavecchia and Orte, has been under the consideration of Government since 1900. A new modified project proposes a line between Civitavecchia and Terni, via Rome, about 80 miles. The line is to be built on level ground, and the tunnels, bridges and curves contemplated in the former project have almost entirely been done away with. The line is to start from Civitavecchia and go to Caprancia after passing through the neighboring agricultural district, and then to Gallese, where it will join the main line from Rome to Terni, below Orte. The estimated cost of building and working the line is about $2,500,000. A subvention is expected from Government and from the communes which are to be served by the new line.

MANUFACTURING INDUSTRY.—Italy.—A reward of $38,600, payable in annual installments, ranging from $2,895 the first year to $965 the last year, has been offered for the establishment of a new industry in Ascoli Piceno, Italy, which will give employment to at least 150 persons during the first two years, 200 during the third and fourth years, and 300 persons thereafter. Detailed information may be obtained by addressing La Direzione della Cassa di Risparmio, Ascoli Piceno, Italy. Ascoli Piceno, which is the capital of Ascoli Province, is situated in the eastern part of Italy, 20 miles from San Benedetto del Sconto, on the Adriatic Sea, and 55 miles south of Ancona, with both of which places it is connected by railroads. Its population is about 30,000, and its chief industries are flour mills, brickyards, and china and woodwork factories. It has an excellent agricultural school and a normal school for girls. Labor in Ascoli Piceno is said to be very cheap.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

SEWER CONSTRUCTION.—New York, N. Y.—Bids as follows per lin. ft. were received Aug. 16 by President Borough Richmond for labor and materials for completing abandoned contract for constructing sewer in Fir and Second Wards; Louis T. Tribus, Acting Pres. Work requires construction of 175 lin. ft. wooden outlet sewer: Jos. Johnson's Sons, $23.50; B. A. Matthews, $24.57; Cunningham & Kearns Construction Co., $28.58.

Write our advertisers when you intend to buy your supplies and machinery for improvements, or for carrying out your contracts. If you do not find what you want in our advertising pages write us for list of firms, and we will put you in communication with them at once.

HIGH PRESSURE MAINS.—New York, N. Y.—Following bids were received by Department Water Supply, Gas and Electricity, Aug. 31, for furnishing, delivering and laying high pressure fire service mains and appurtenances in West 10th and West 12th Sts., Neptune and Surf Aves., Kensington, Stratton's, Henderson's, Thompson's, and New Iron Pier Walks, and at the Coney Island Sewage Pumping Station; (1) W. J. Baldwin, 151 Halsey St., Brooklyn; (2) Geo. W. Phillips, Brooklyn; (3) H. Neuman, 243 Euclid Ave.; (4) Borough Construction Co., 189 Montague St.; (5) M. J. Dady, 350 Fulton St.; (6) Jno. J. Cr[illegible]n, 307 Washington St.; (7) I. Harris, 485 Flatbush Ave.:

Bids received at New York, N. Y., Aug. 31, 1904, for furnishing High Pressure Fire Service Mains and Appurtenances.

Items.	(1)	(2)	(3)	(4)	(5)	(6)	(7)
650 tons straight pipe	$25.80	$35.00	$30.00	$26.00	$25.00	$30.00	$26.00
110 tons special castings	60.00	55.00	60.00	58.00	110.00	60.00	60.00
175 lin. ft. 24-in. cast iron inlet pipe to lay, including excavation, etc	3.00	3.00	5.00	3.25	20.00	14.00	4.00
5,200 lin. ft. 16-in. pipe to lay, including excavation and filling	1.44	.60	.75	.55	2.00	1.00	1.00
2,600 lin. ft. 12-in. pipe to lay, including excavation and filling	1.32	.40	.50	.50	1.50	.80	.80
400 lin. ft. 8-in. pipe to lay, including excavation and filling	1.26	.30	.40	.40	1.50	.60	.50
225 cu. yds. excavation for pump wells and manholes	2.40	3.50	4.00	1.50	2.00	6.00	10.00
16-in. stop cocks, 6	120.00	120.00	125.00	72.00	125.00	150.00	95.00
12-in. stop cocks, 8	54.00	50.00	55.00	40.00	60.00	100.00	40.00
8-in. stop cocks, 50	30.00	30.00	35.00	22.00	35.00	50.00	25.00
Three-Nozzle fire hydrants, 20	74.40	75.00	80.00	74.42	85.00	125.00	75.00
Four-Nozzle fire hydrants, 30	86.40	80.00	90.00	82.96	95.00	150.00	90.00
Cobble pavements, 75 sq. yds	.24	.25	.30	.20	.40	.10	.20
Block pavements, 100 sq. yds	.24	.75	2.00	.30	.50	.50	.50
Asphalt on concrete, 1,300 sq. yds	3.36	3.00	2.00	3.50	4.00	4.00	6.00
Macadam, 550 sq. yds	.60	.20	.20	.50	2.00	6.00	.40
Brick pavements on concrete, 50 sq. yds	2.40	1.75	2.00	3.00	3.00	1.00	4.00
Artificial stone pavement, 1,000 sq. yds	3.00	2.24	2.25	.20	4.00	2.00	4.00
Board walk, 450 sq. ft	.30	.10	.25	.10	.20	.05	.05
Bluestone flag, 400 sq. ft.	.12	.04	.05	.10	.30	.05	.20
Brick masonry, 50 cu. yds	15.60	10.50	12.00	.15	15.00	12.00	25.00
Concrete, 30 cu. yds	12.00	6.50	7.00	8.00	9.00	10.00	15.00
4-in. bluestone coping for pumpwell, 75 sq. ft	1.50	1.00	1.25	.50	2.00	.50	2.50
B. M. lumber, 3,000	42.00	50.00	100.00	25.00	25.00	30.00	30.00
Extra excavation, 500 cu. yds	.84	.75	1.00	1.00	2.00	2.00	2.00
Totals	$51,916	$48,025	$46,894	$39,980	$67,215	$60,697	$55,165

*SEWER.—Westfield, Mass.—Bids were received by Sewerage Committee Aug. 24 for constructing sections 8 and 9 of storm water sewer. Contract was awarded to Seymour, Clark-Hills Co. The mortar for brick work is Portland cement 1:2½, and concrete masonry is Portland cement 1:3:6. Average excavation was as follows: 42-in. sewer, 8.9 ft.; 36-in., 8.9; 24-in. and 26-in., 8.6; 24-in., 9.8 ft.; 20-in., 7.3 ft.; 18-in., 6.6 ft.; 12-in., 9.6 ft. Oren E. Parks, Town Engr. The following are the bids received; (1) Seymour, Clark-Hills Co., (2) Edward B. Roberts:

Items.	Quantities.	(1)	(2)
Earth excav., 42-in. sewer	400 lin. ft.	$1.85	$1.75
" " 36-in. "	960 "	1.75	1.75
" " 24x26-in. sewer.	400 "	1.65	1.75
Trench and lay 24-in. pipe	790 "	1.65	1.75
" " 20-in. "	980 "	1.10	1.00
" " 18-in. "	700 "	.75	.70
" " 12-in. "	350 "	1.10	1.30
" " 10-in. "	50 "	.50	.55
" " 8-in. "	800 "	.50	.55
Brick masonry	620 cu. yd.	13.50	14.00
Concrete masonry	50 "	4.00	4.50
Boston block paving	60 sq. yd.	3.00	3.00
Spruce lumber	5,000 ft.B.M.	25.00	30.00
Totals		$15,671	$16,090

*FILTRATION PLANT.—Poughkeepsie, N. Y.—Following bids were received by State Commission of Lunacy, Albany, N. Y., Aug. 31 for constructing water filtration plant at Hudson River State Hospital, Poughkeepsie; contract awarded to T. A. Gillespie & Co.; Allen Hazen, 220 Broadway, New York, Consult. Engr.; (1) T. A. Gillespie Co., 71 Broadway, New York; (2) Frank Pidgeon, Saugerties, New York; (3) Peter Morgan, Poughkeepsie, N. Y.; (4) Clinton Beckwith, Astor House, New York; (5) Charles Cooke, Poughkeepsie, N. Y.; (6) Murray & Baillie, Brooklyn, N. Y.:

Bids received at Poughkeepsie, N. Y., August 31, for Constructing Water Filtration Plant at Hudson River State Hospital.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)
Excavation	5,800 cu. yds.	$1.05	$1.84	$1.60	$1.50	$2.00	$2.50
Concrete masonry	2,000 "	8.50	11.00	8.50	9.90	10.00	9.00
Filter gravel	500 "	1.50	2.00	2.00	1.75	2.00	1.50
Filter sand	1,800 "	2.00	1.50	2.00	1.65	1.75	2.50
Puddle fill and earth work	Lump sum	3,800.00	1,000.00	3,300.00	2,500.00	7,000.00	8,200.00
Fixtures and fittings	" "	3,460.00	2,000.00	7,411.00	9,500.00	6,700.00	10,500.00
Addition to pumping station	" "	1,200.00	1,389.00	1,321.00	500.00	1,800.00	2,200.00
Totals		$35,900	$40,761	$42,912	$44,845	$51,250	$58,650

*SEWER.—Mt. Carmel, Pa.—Following bids were received Aug. 20 for building sewer here; (1) David Peoples, (2) Robert S. Ratbun, (3) De Nallo & Klinberg, (4) Stone, Grossart & Co.:

Bids received at Mt. Carmel, Pa., August 20, 1904, for Building Sewer.

Items.	Quantities.	(1)	(2)	(3)	(4)
Wooden sluice, 12 ft. x 2 ft. 6 in	363 ft.	$2.50	$3.90	$3.00	$4.07
Concrete sewer, 11 ft. x 2 ft. 6 in	437 ft.	16.50	18.50	8.75	10.15
" " 8 ft. x 2 ft. 6 in	400 ft.	12.00	14.50	7.75	8.85
" " 5 ft. x 1 ft. 6 in	237 ft.	7.50	9.50	5.00	4.80
Double ring brick sewer, 4 ft	400 ft.	6.09	7.64	6.00	6.80
Double ring brick sewer, 3 ft. 6 in	410 ft.	4.24	7.34	5.00	6.00
Single ring brick sewer, 3 ft	363 ft.	4.00	2.50	3.50	3.42
Single ring brick sewer, 2 ft. 6 in	200 ft.	3.21	2.44	3.25	2.74
Double strength terra cotta pipe, 24-in	200 ft.	1.77	2.34	1.90	2.69
" " " " 20-in	400 ft.	1.27	1.76	1.85	2.06
" " " " 18-in	200 ft.	1.03	1.69	1.65	1.50
Standard terra cotta pipe, 12 in	1,275 ft.	.82	1.32	1.30	1.05
" " " 8-in	725 ft.	.40	.79	1.60	.71
Slants in brick sewer, 5 in	158	.35	.40	.25	.25
Branches, 24 x 5	6	2.00	5.26	3.50	3.25
" 20 x 5	12	1.25	3.67	2.50	2.30
" 18 x 5	6	.80	2.67	2.00	1.90
" 12 x 5	104	.65	1.26	.90	.90
" 8 x 5	52	.45	.63	.50	.50
Terra cotta house laterals, 5-in	300	.21	.48	.40	.36
Manholes	15	35.00	35.00	45.00	45.00
Interceptors	3	25.00	110.00	85.00	75.00
Gutter inlets	11	65.00	65.00	40.00	50.00
Side "	4	75.00	75.00	50.00	50.00
Corner "	6	80.00	85.00	50.00	65.00
Cu. yds. rock ex.	200	1.75	2.75	3.00	2.50
No. 6 exp. metal	5,244 sq. ft.	.04	.04	.04	.04
No. 6 " "	2,251.5 sq. ft.	.04	.04	.04	.04
No. 4 " "	4,800 sq. ft.	.045	.045	.045	.045
Time		100 days	100 days	90 days	115 days
Totals		$26,403	$32,171	$22,213	$24,203

ENGINEERING MATERIAL PRICES.

These prices will appear in the first or second issue of each month.

TRACK FASTENINGS—

Chicago—at mill—Steel splice or angle bars, 1.35 to 1.40 cts.; spikes, 1.65 to 1.70 cts.; bolts, square nuts, 2.20 to 2.25 cts.; hexagon nuts, 2.30 to 2.40 cts.

RAILS, STEEL—

New York—at mill—New, standard sections, $28; light rails, $18 to $19 at mill; old iron, f. o. b., $14 to $15; old steel, f. o. b., long lengths, $12 to $13; old steel, short pieces, $11 to $11.50; relayers, $16 to $17.

Chicago—at mills—New, $28, standard sections; light rails, $20 to $21; old iron, $15.75 to $16.25; old steel, 4 ft. and over, $11.75 to $12; old steel, less than 4 ft., $10.50 to $11; heavy relayers, $20.50 to $21.50; heavy relayers, for side tracks, $18 to $20.

Pittsburg—at mill—Standard sections, $28.

STRUCTURAL MATERIALS—

New York—at tidewater—Beams, channels, angles and zees, 1.74½ to 2 cts.; tees, 1.79½ to 2 cts.; bulb angles and deck beams, 1.84½ to 2.05 cts.

Chicago—I-Beams and channels up to and including 15-in. and angles 3-in. in one leg and larger, 1.76½ cts.; tees, $1 per ton extra. Store prices, angles, beams, channels and zees, 2 to 2.10 cts.; tees, 2.05 to 2.15 cts., random lengths or cut to 5 ft. and over.

Pittsburg—Beams, channels and zees, up to 15-in., 1.60 cts.; over 15-in., 1.70 cts.; angles, 3 × 2 up to 6 × 6, 1.60 cts.; zees, 1.60 cts.; tees, 1.60 cts

PLATES AND SHEETS—

New York—at tidewater—Sheared plates, carload lots, tank, 1.74½ to 1.85 cts.; flange, 1.84½ to 2 cts.; marine, 1.94½ to 2.10 cts.; fire box, 1.94½ to 2.50 cts.

Pittsburg—Tank, ¼-in. thick and up to 100 ins. wide, 1.60 cts., at mill, Pittsburg; flange and boiler steel, 1.70 cts.; marine and ordinary firebox, 1.80 cts., at mill, Pittsburg; locomotive firebox, 2.10 to 3 cts.

MERCHANT STEEL—

Chicago—Machinery, smooth finished, 1.76½ to 1.81½ cts.; tire, smooth finished, 1.71½ to 1.76½ cts.; open hearth spring, 1.90 to 2.10 cts.; crucible tool, 6½ to 8 cts.; special tool, 13 cts. and up.

Pittsburg—Plow steel, 6-in. and under, 1.35 cts. for Bessemer and 1.45 cts. for open hearth; plow slabs, ⅝-in. and heavier, 1.60 cts.; tire, 1.55 to 1.60 cts.; crucible tool steel, ordinary grades, 6 to 8 cts; 12 cts. and upwards for special grades.

IRON—

Pig Iron:

New York—at tidewater—No. 1 Foundry, $14.75 to $15; No. 2 Foundry, $14 to $14.50; Gray F[illegible]e, $13 to $13.50; Tennessee and Alabama bran[illegible], $13.25 to $13.50, for No. 2 Foundry, and $12.75 to $13.25 for No. 3 Foundry.

Chicago—f. o. b. Chicago—Lake Superior Charcoal, $14.75 to $15; Northern Coke Foundry, No. 1, $14 to $14.50; Northern Coke Foundry, No. 2, $13.50 to $14; Northern Coke Foundry, No. 3, $13 to $13.50; Northern Scotch, No. 1, $14 to $14.50; Ohio Strong Softeners, No. 1, $14.80 to $15.05; Ohio Strong Softeners, No. 2, $14.55 to $14.80; Southern Silvery, according to Silicon, $14.15 to $15.15; Southern Coke, No. 1, $13.65; to $13.90; Southern Coke, No. 2, $13.15 to $13.40; Southern Coke, No. 3, $12.90 to $13.15; Southern Coke, No. 4, $12.15 to $12.40; Southern Coke, No. 1, Soft, $13.65 to $13.90; Southern Coke, No. 2, Soft, $13.15 to $13.40; Southern Gray Forge, $12.15 to $12.40; Southern Mottled and White, $11.90 to $12.15; Malleable Bessemer, $13.50 to $14; Standard Bessemer, $14.25 to $14.75; Jackson County and Kentucky Silvery, 6 to 10% Silicon, $17.30 to $19.30; Alabama Basic, $13.15; Virginia, Basic, $14.10 to $14.35.

Pittsburg—Bessemer at Pittsburg, $12.50 to $12.60; at furnace, $11.65; Northern No. 2 Foundry at furnace, $11.90; Northern Forge at Pittsburg, $11.75 to $11.85.

Cast-Iron Pipe:

New York—Carload lots, gross tons, 6 to 10 ins., at tidewater, $25 to $25.50; 12 ins. and up, $24 to $25.

Chicago—4-in. water pipe, $25.50; 6-in. and heavier, $24.50, with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—

Asphaltum:

Ventura and other California asphalts, $25 per ton at New York; Trinidad refined, $25 per ton; Venezuela asphalt, $25 per ton.

Bitumen:

"B," 3½ cts.; "A," 5 cts.

Cement:

Rosendale, in wood, 70 cts.; Portland, domestic, $1.28; Portland, Atlas, $1.50 to $1.60; Portland, Dragon, $1.50 to $1.60; Vulcanite, $1.45 to $1.60.

Copper:

Lake, 12.62½ to 12.75 cts.; electrolytic, 12.50 to 12.75 cts.; casting, 12.37½ to 12.50 cts.

Explosives:

Blasting powder, A, 25-lb. keg, 65 cts.; B, $1.40; "Rackarock," A, lb., 25 cts.; B, 18 cts.; Judson R. R. powder, lb., 10 cts.; dynamite (20% nitro-glycerine), 13 cts.; (30% ni.-gly.) 14 cts.; (40% ni.-gly.) 15 cts.; (50% ni.-gly.) 16½ cts.; (60% ni.-gly.) 18 cts.; (75% ni.-gly.) 21 cts.; glycerine for nitro, lb., 12⅜ to 12⅝ cts.

Lead:

New York spot, 4.20 to 4.30 cts.

Spelter:

New York spot, 5 to 5.12½ cts.

Tin:

New York spot, 27.12½ to 27.25 cts.

LUMBER—

New York: Wholesale prices.

Piling—Eastern—Cargo rates: Ranging 30 to 40%. 12-in. butt, 35 to 40 ft., 5 cts.; 40 to 50%. 12-in. butt, 35 to 40 ft., 5¼ cts.; 50 to 60%. 12-in. butt, 38 to 40 ft., 5½ cts.; two-thirds 12-in. butt, 38 to 42 ft., 6 cts.; all 12-in. butt and up, 40 to 45 ft., 6½ cts.; all 12-in. butt and up, 48 to 50 ft. average length, 7 cts.

Spruce—Eastern—Special: Cargoes at New York, $20 to $23; random cargoes, narrow, $18 to $21; random cargoes, wide, $21 to $23.

Hemlock—Pennsylvania: Joists, 12, 13 and 14 ft., $17; boards, 13s and 16s, $19.50; boards, surfaced, $20; boards dressed and matched, $20.50.

Yellow Pine—Random cargoes, sail deliveries at New York, $20.50 to $22; flooring, No. 1, $22.50 to $23.50; flooring, No. 2, $20 to $20.50; flooring, No. 3, $17 to $18; step plank, $33 to $36.

STONE—Wholesale rates, del. at N. Y.; price per cu. ft.: Nova Scotia, in rough, 90 cts.; Ohio freestone, in rough, 85 to 90 cts.; Minnesota freestone, in rough, 90 cts.; Longmeadow freestone, 85 cts.; brownstone, Portland, Ct., 60 cts.; brownstone, Belleville, N. J., 75 cts. to $1; Scotch redstone, $1.05; Lake Superior redstone, $1.10; granite, rough, 40 to 50 cts.; limestone, buff and blue, 80 cts.; portage, $1; Caen, $1.25 to $1.55; white building marble, $1.25 to $1.75; Wyoming bluestone, 90 cts.; Euclid bluestone, 90 cts.

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INDUSTRIAL NOTES.

OUR READERS are requested to send short notes regarding new contracts that they are about to award, or have secured, for our news columns. Changes in firms' names and addresses are also wanted. "Write-ups" will not be inserted under any circumstances, as notes must contain news of interest to our readers. If our readers are in the market for any kind of machinery, tools, etc., we shall be glad to send them names of responsible firms making what they want.

THE CLIMAX ROAD MACHINE CO., of Marathon, N. Y., through its Pittsburg office, has closed the contract for 2 steel highway bridges to be erected in Fayette County, also one steel girder bridge to be erected in Young Township, Jefferson County, Pa.

THE BUILDERS IRON FOUNDRY, Providence, R. I., announces that it has a contract for a 10,000,000-gallon d'Auria High Duty Horizontal Compound Duplex Condensing Pumping Engine, for the Lake Saltonstall Station of the New Haven Water Co., New Haven, Conn.

THE INGERSOLL-SERGEANT DRILL CO., of New York, has a contract with the Friedrichstadt shipyards (of J. & A. Jensen ag Dahl, Krishania), one of the largest in Norway, covering their requirements for 2 years. They have adapted the "Haiseler" pneumatic hammers and drills as standard.

P. K. WOOD, Los Angeles, Cal., announces that the Fond Du Lac Water Co. has let a contract for a No. 10 Wood's Deep Well Propeller Pump of 1,200 gallons capacity per minute, to King & Walker, Agents, Madison, Wis. The pump is to be driven by direct-connected electric vertical motor.

THE SEAMLESS STEEL TUBES CO., Detroit, Mich., announces that the company has been reorganized and renamed and will, in future, be known as the Detroit Seamless Steel Tubes Co. The manufacture of the "Detroit" cold drawn seamless steel boiler tubes, automobile axle tubing and mechanical tubes will be continued on an increased scale.

THE FEDERAL FILTRATION SYSTEM, 141 Broadway, New York, reports filter plants under construction for the following cities and towns: Barnesville, Ga.; Leavenworth, Kan.; Stamford, N. Y.; Larchmont, N. Y.; Tarrytown, N. Y.; Youngstown, O.; Augusta, Ga. This latter being an increase of the old New York Filter Plant at that place.

THE CLINTON FIREPROOFING CO., of Canada, controlled by Albert Oliver and Gallick & Smith of New York, has been awarded the contract for fireproofing the harbor sheds in Montreal harbor, using the Clinton welded fabric 1,800,000 sq. ft. as reinforcement of floors and roof. Also contract for Singer Sewing Machine Works, at St. John's, Quebec, for 600,000 sq. ft.

THE BROWN EXCAVATING MACHINE CO., of Brooklyn, N. Y., announces its change of address to 538 Bergen St. which was formerly 367 Fulton St. Announcement is also made that the Central Iron Works of Syracuse, N. Y., has secured the contract for furnishing all grey iron castings for the Brown Excavating Machines, M. C. Markham, of the above firm, having secured the contract.

THE INGERSOLL-SERGEANT DRILL CO., 26 Cortlandt St., New York, has adapted a unique method for securing suggestions for advertisements. Cash prizes of $25, $10, and $5 will be awarded any stockholder or employe of a company, firm or individual using Ingersoll-Sergeant machinery, or in the employ of the company, for advertisements suitable to the requirements of the company. Suggestions should be sent to Compressed Air, 26 Cortlandt St., New York.

THE B. F. STURTEVANT CO., Jamaica Plain, Mass., announces that the Chapin & Gould Paper Co., of Huntington, Mass., has installed an induced draft fan driven by a direct-connected vertical engine in their plant. Previous to the installation of this apparatus they were using 3 boilers with a high grade of coal. Now only 2 are being used and cheaper fuel. The company also announces an order from Joseph Bancroft & Sons Co., of Rockford, Del., for 2 Sturtevant Standard Economizers provided with insulated metallic casing for fronts.

THE LIMA LOCOMOTIVE & MACHINE CO. of Lima, O., report August an exceptional month, having received more orders that month than any previous month in its history. Its erecting shop is working both a night and day force full time, and is unable to keep up with the demand for Shay Locomotives. The company also announces that it is prepared to turn out Direct Connected Locomotives suitable for plantation service, contractors, mines, quarries, switching service, and in fact all classes of service where the powers required will not exceed 50 tons in weight.

THE POWER SPECIALTY CO., 126 Liberty St., New York, announces that the following contracts have been closed for the installation of Foster superheaters: John Spencer, Wauconda, Ill., 65-HP.; Cortland County Traction Co., Cortland, N. Y. 528-HP.; Utica Gas & Electric Co., 1,300-HP.; International Light & Power Co. El Paso, Tex., 344-HP.; Hackensack Water Co., 3,120-HP.; Hartford Electric Light Co., 2,600-HP.; Portland General Electric Co., 3,120-HP.; Chihuahua & Pacific Railway Co., 100-HP.; Pfister & Vogel Leather Co., Milwaukee, Wis., 1,[illegible]-HP.; U. S. Naval Gun Factory, Washington, D. C., 1,500-HP.; Union Electric Light & Power Co., St. Louis, Mo., 20,000-HP.; Chicago & Western Indiana Railroad, 1,800-HP.

MARK BARY AND GEO. E. SCHREIBER, St. Louis, Mo., announce that they have formed a partnership under the firm name of Bary & Schreiber, Mechanical and Electrical Engineers, with offices in the Mermod & Taccard Bldg. They will act as consulting and supervising engineers in the complete equipment of lighting and railway systems and in the mechanical and electrical equipment of buildings for manufacturing, offices, hotels, or other purposes. Special attention will be paid to tests, reports, machine design, etc. Mr. Schreiber was until recently, connected with Messrs. Ford, Bacon & Davis, engineers of New York and Kansas City. Mr. Bary was for a number of years with Mr. H. H. Humphrey, consulting engineer of St. Louis.

THE BRODERICK & BASCOM ROPE CO., St. Louis, Mo., have on exhibition at the World's Fair, a cable spool, on which is wound a bronze-colored steel cable, a facsimile of which was made for the Metropolitan Steel Railway of New York. The cable is about 7 miles long, weighs 137,000 lbs., and has a breaking strain of 175,000 lbs. This immense steel rope rests on a jumbo steel wagon, elegantly finished and artistically decorated. It requires fifty-six horses to haul it. On the ends of the spool are two 8-ft. disks, which revolve constantly. Ropes of various designs, from the small ¼-in. to the large 3-in. diameter, are artistically arranged at the disks and give the visitor a good idea of the numerous kinds of rope manufactured by the firm. A fence made of artistically designed 3-in. steel rope incloses the exhibit. The designs are circular, thus giving the prettiest lines in architecture. At intervals the fence design is made very artistic by paper weight columns of steel rope colored in bronze. In front of the large spool is a miniature model 1-6 in size, to which are attached 24 horses with drivers. This shows the method employed in moving the cable to the power house. Here may be seen a picture of ancient wire rope found in Pompeii. This is the first photograph ever shown in America, and was secured at considerable labor and cost by the firm some years ago. The rope indicates that the steel cable manufacture of to-day is not as modern as people would think, and that about 2,000 years ago the Romans knew something about the art.

THE HARRISON SAFETY BOILER WORKS, Philadelphia, Pa., announces that the following Cochrane heaters, Cochrane separators and Sorge-Cochrane systems are on exhibition at the St. Louis Exhibition:

Exhibitors' Power Plant: One 1,200-HP. Sorge-Cochrane system; three 6-in. Cochrane horizontal receiver separators.

Exhibit of Westinghouse-Church-Kerr Co.: Two 4,000-HP. Cochrane feed-water heaters and purifiers; one 6-in. Cochrane vertical steam separator.

Intramural Power Plant: One 1,750-HP. Cochrane feed-water heater and purifier; one 10-in. Cochrane vertical receiver separator; one 8-in. Cochrane vertical receiver separator; one 8-in. Cochrane horizontal receiver separator; one 40-in. Cochrane horizontal vacuum oil separator; one 300-HP. Sorge-Cochrane system.

Underwriter Fire-Pump Station Line: One 14-in. Cochrane horizontal receiver separator.

Exhibit of P. DeC. Ball: One 600 HP. Cochrane feed-water heater and purifier; one 6-in. Cochrane horizontal oil-ammonia separator.

Philippine Government Board (U. S.) Exhibit: One 1,250-HP. Cochrane feed-water heater and purifier.

Exhibit of Kroeschell Bros.: Two 5-in. Cochrane horizontal steam separators; one 6-in. Cochrane horizontal steam separator; one 7-in. Cochrane horizontal steam separator.

Exhibit of The Carbondale Machine Co.: One 2-in. Cochrane vertical steam separator.

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CONTRACT PRICES.

*SEA WALL.—Galveston, Tex.—Bids were received by Capt. G. M. Hoffman, U. S. Engrs., Aug. 24 for constructing sea wall at Fort Crocket. The following are the alternative proposals received for delivery of material: (1) 167,000 lin. ft. piling, (2) 1,105,000 ft. B. M. sheet piling, (3) 12,000 cu. yds. sharp sand, (4) 28,500 cu. yds. broken stone, (5) 28,500 bbls. cement, (6) 200,000 lbs. 1¼-in. steel rods, (7) 100 lin. ft. vitrified 6-in. sewer pipe, (8) 15,000 tons riprap, (9) 250,000 ft. B. M. lagging: Isaac Heffron, Galveston, Tex., (1) $0.0975, (2) $16, (3) $1.29, (4) $2.48, (5) $2.05, (6) $0.0316, (7) $0.25, (8) $1.95, (9) $15.50; Moore & Goodman, Galveston, Tex., (2) $15, (9) $13 ((no adhesive seal attached to bid); Tom Peirce Nichols, Galveston, Tex., (1) $0.0749, (2) $12.40, (3) $0.99, (5) $1.78, (9) $12.40; W. L. Macatee & Sons, Houston, Tex., (5) $1.465 (Alpha cement in sacks, four to bbl., with additional charge of 10 cts. per sack, to be refunded on return of sacks); H. Marquardt & Co., New York, (5) $1.87 (if delivered in sacks price will be $2.01 per bbl. of four sacks, with 10% allowance for return of each empty sack); J. L. Campbell, Houston, Tex., (1) $0.085, (2) $16.50, (9) $14; Vickers & Stribling, Kemp, Tex., (1) $0.08 (no guaranty to proposal); Wm. Parr & Co., Galveston, Tex., (5) $1.975 ("Double Anchor" brand Portland cement in sacks, two or three to the bbl.; bid includes cost of sacks, allowance of 9 cts. per bbl. being made for empty sacks returned); J. W. Lauderdale, Somerville, Tex., (4) $2.45, (8) $1.93; Marquette Cement Mfg. Co., Chicago, Ill., (5) $2.63 (price per bbl. in cloth sacks; proposal not properly signed).

For constructing the sea wall, bids as follows were received: (1) J. M. O'Rourke & Co., Galveston, Tex.; (2) Wm. S. Hipp, Houston, Tex.; (3) Sundeman, Dolson & Co., Galveston, Tex., (4) Isaac Heffron Galveston, Tex.:

BIDS RECEIVED AT GALVESTON, TEX., AUGUST 24, FOR CONSTRUCTING A SEA WALL AT FORT CROCKET.

Items.		(1)	(2)	(3)	(4)
167,000 lin. ft. round piling, bark on, in completed structure, including trenching and back filling		.19	.15	.19	.14$\frac{20}{100}$
1,105,000 ft. B. M. of sheet piling including all necessary fastenings in completed structure	Per M. ft. B. M.	25.00	27.50	30.00	24.20
200,000 lbs. re-inforcing and anchor rods in completed structure	Per lb.	.04	.035	.045	.03$\frac{18}{100}$
100 lin. ft. 6-in. vitrified pipe in place in completed structure	Per lin. ft.	.95	.20	.25	.20
28,500 cu. yds. concrete in completed structure	Per cu. yd.	5.75	5.90	6.05	6.17
15,000 tons of riprap in place	Per ton	1.90	2.30	2.10	1.95
Totals		$259,825	$265,107	$277,830	$261,890

RIVER DEEPENING.—Chicago, Ill.—Following bids were received by Trustees Sanitary District of Chicago Aug. 24 for deepening west fork of south beach of Chicago River; (1) Hardin & Co.; (2) Hayes Bros. & Co., Janesville, Wis.; (3) J. J. O'Heron & Co., (4) James Butler, (5) Roemheld & Gallery, (6) Chicago & Great Lakes Dredging Co., (7) Jackson & Corbett; all bidders from Chicago unless otherwise stated:

Bids received at Chicago, Ill., Aug. 24, for Deepening West Fork of South Branch of Chicago River.

		(1)	(2)	(3)	(4)	(5)	(6)	(7)
Coffer Dam, erecting, maintaining and removing:								
East	lump sum	$3,490.00	$2,515.00	$4,200.00	$2,520.00	$7,000.00	$2,500.00	$4,000.00
West	" "	1,546.00	1,210.00	2,850.00	1,180.00	5,500.00	2,500.00	2,000.00
Excavation deposited on spoil area:								
Earth, 25,174 cu. yds.	per cu. yd.	.39⅜	.45	.58	.80	.59	.72	.90
Rock, 5,098 cu. yds	" "	1.65	1.95	1.67	1.60	1.40	3.00	2.50
Box drains for existing sewers	lump sum	1,150.00	448.00	810.00	1,200.00	800.00	1,000.00	2,000.00
Box and pipe intakes for existing intakes	"	750.00	460.00	700.00	800.00	675.00	1,000.00	800.00
Totals		$25,386	$25,902	$31,675	$33,996	$35,965	$40,419	$44,202

*CAST-IRON PIPE LINE.—Columbus, O.—Following bids were received by Board Public Service, Julian Griggs, Ch. Engr., Aug. 10, for laying cast-iron pipes across Scioto River: (1) WestWater & Casey, Columbus, O. (awarded contract); (2) Chas. T. McCracken & Co., Cleveland, O.; (3) Fisher & Knight Construction Co., Columbus, O.:

Bids received at Columbus, O., August 10, 1904, for Laying Cast Iron Pipes Across Scioto River.

Items.	Quantities.	(1)	(2)	(3)
Excavation above elevation 8	22,000 cu. yds.	$0.44	$0.41	$0.35
Excavation below elevation 8	2,500 "	1.10	1.00	3.00
Concrete backing, 1-4-7	300 "	5.50	5.00	5.00
Concrete in structures, 1-3-5	300 "	8.25	7.50	5.00
Dry stone paving	30 "	2.20	2.00	2.00
Furnishing and laying cast iron pipe	2,500 tons	38.25	39.10	40.00
" " bill special castings	35 tons	65.00	100.00	100.00
" " flange special castings	10 tons	88.00	125.00	125.00
" " 6-in. gate valves	4	22.00	40.00	20.00
" " 10 in. " "	2	37.50	50.00	50.00
" " 16-in. " "	1	75.00	80.00	100.00
" " 4-in. fire hydrants	1	40.00	30.00	35.00
Setting Venturi meter	1	250.00	250.00	300.00
Miscellaneous iron work	7,000 lbs.	.05	.05	.05
Totals		$116,279	$118,800	$123,925

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

STEAM ROAD ROLLERS.—Iroquois Iron Works, Buffalo, N. Y. 6 × 9 ins.; pp. 8.

This pamphlet sets forth briefly the features of the rollers made by this company, and illustrates the type of roller.

CARS AND INDUSTRIAL RAILWAYS.—John Turl's Sons, 534-6 West 28th St., New York.

This folder illustrates the different types of industrial cars for iron works and other purposes, and industrial track and turntables made by this company.

GOLD DREDGING MACHINERY.—General Construction Co., Seattle, Wash. 8 × 11 ins.; pp. 16.

The merits of the Bewsher dredging pump, as designed for dredging gold-bearing sands and gravels, are fully set forth in this catalogue, and illustrations are given showing its design. The gold dredge "Elwa" is shown by photographs, its general design being novel.

INSTRUCTIONS ON THE CARE OF ELECTRIC GENERATORS.—Jeffrey Manufacturing Company, Columbus, Ohio. 8 × 10 ins.; pp. 8.

This bulletin gives brief instructions on the operation and management of direct current generators, cross-sections being given to illustrate the text.

GAS PRODUCERS.—R. D. Wood & Company, Philadelphia, Pa. 8½ × 11 ins.; pp. 12.

The economic merits of producer gas and gas [illegible] are set forth, figures of cost being given, accompanied by illustrations to indicate the types of producer [illegible] power plants.

TRENCH BRACES.—Dunn Manufacturing Company, Pittsburg, Pa. 5 × 7 ins.; pp. 18.

The Dunn patent extensible trench brace, or trench [illegible] is illustrated and list prices given for the different [illegible]. A number of interesting photographs show the brace in actual use in trench work, also in underpinning heavy structures.

BLOCKS AND PULLEYS.—Western Block Company, Lockport, N. Y. Cloth; 7 × 10 ins.; pp. 84.

There is probably not a type of block made of wood or steel that is not illustrated in this catalogue. The sizes of each type are given, together with price-list; and as the book is well indexed it should prove of value for reference, particularly in view of its permanent binding.

RUBBER BELT CONVEYORS.—Jeffrey Manufacturing Company, Columbus, O. 6 × 8 ins.; pp. 48.

This catalogue is filled with illustrations of rubber belt conveyors applied to a great variety of uses, such as the handling of cement bags, barrels, boxes, coal, rolls of carpet, broken stone, ore, etc. Self-supporting trippers for automatically discharging at either side of the belt are illustrated. Price lists are given of the different weights and sizes of rubber belts and canvas belts, of belt carriers, and other details.

STRAP LINKS FOR COAL-CUTTING MACHINE CHAINS.—Wagner-Palmros Manufacturing Company, Fairmont, W. Va. 3 × 6 ins.; pp. 12.

One of the greatest items of expense in connection with the operation of coal-cutting machines is the item of repairs to the chain. The links illustrated and described in this catalogue are especially designed to stand the wear, and therefore to reduce the cost of maintenance. It is stated that the first of the chains in which these links were used showed no appreciable wear at the end of a year and a half. Cross-sections show the design of the link.

STEEL TAPES.—Justus Roe & Sons, Patchogue, N. Y. 3½ × 6 ins.; pp. 4.

This folder illustrates Roe's patent angle steel pocket tape measure, designed especially for use in turning right angles, although it is equally useful for any other purpose. The tape is provided with eyelets at such intervals that it can be readily used for turning a right angle by the "6-8-10 rule."

TOOLS.—Standard Truck & Forging Company, St. Louis, Mo. 6 × 9 ins.; pp. 32.

This catalogue illustrates and gives prices of the following tools: Rail benders, rail forks, track wrenches, tamping picks, contractors' picks, track punches and chisels, sledges and hammers, rail and tie tongs, spike mauls, claw bars and tamping bars, pinch and digging bars, tongs, wedges, drills, etc.

BLOWERS.—P. H. & F. M. Roots Co., Connersville, Ind. Paper; 10 × 7½ ins.; pp. 20; illustrated.

The well-known Roots' positive-pressure blowers are fully covered by this catalogue, which is numbered 29.

IRON CEMENT.—Gobeen Mfg. Co., Canton, O.

A card advertising "Oxidized Carbon Cement," for setting girders on bridge seats, coating inaccessible parts of structural work before riveting, etc.

PUMPS.—Knowles Steam Pump Works, 114 Liberty St., New York, N. Y. Paper; 6 × 9 ins.; pp. 4; illustrated.

A special design of pump is shown here, a high-speed pump connected direct by a crank to an electric motor. An efficiency of 93% is said to have been realized on test.

LAMP SHADES.—D'Olier Engineering Co., Philadelphia, Pa. Paper; 6 × 3½ ins.; pp. 4; illustrated.

A special design of reflecting shade for incandescent lamps, adjustable in all directions. Made with plug and with keyless or key socket, in several styles, single or double.

WESTINGHOUSE INDUSTRIES.—The Westinghouse Companies' Publishing Department, Pittsburg, Pa. Paper; 4 × 8½ ins.; pp. 56; illustrated.

A handsome World's Fair souvenir, describing in a comprehensive way the works and products of the many Westinghouse industries.

ATMOSPHERIC CONDENSERS.—Atmospheric Condensation Co., Kansas City, Mo. Paper folder; 4½ × 6 ins.; illustrated.

Shows views of a condensing plant at Kansas City, using the Pennell air condenser described in Engineering News a year or two ago.

GAS EXHAUSTERS.—P. H. & F. M. Roots Co., Connersville, Ind. Paper; 10 × 7½ ins.; pp. 25; illustrated.

A catalogue of the well-known Roots positive pressure blower as adapted to handling gas. Plain, water-cooled, spray and other styles of machine are shown.

PUMPING MACHINERY.—Luitwieler Pumping Engine Co., 707 North Main St., Los Angeles, Cal. Paper; 8x7 ins.; pp. 51; illustrated.

This catalogue is devoted to the Triumph pump, as developed for deep wells, mining, paper stock, railway water supplies, municipal water-works and other purposes.

INSULATING MATERIALS.—H. W. Johns-Manville Co., 100 William St., New York. Paper; 3½ × 6 ins.; pp. 18.

A complete catalogue of mica insulation parts and of molded Vulcabeston, Transite and Asbestos Listing. The catalogue is priced throughout.

ROTARY PUMPS.—P. H. & F. M. Roots Co., Connersville, Ind. Paper; 10 × 7½ ins.; pp. 20; illustrated.

Rotary pumps, with double impellers like the positive-pressure blowers, are built for from 10 ft. to 250 ft. head, with an efficiency stated to be 75 to 85%.

STEAM ENGINES.—Chandler & Taylor Co., Indianapolis, Ind. Paper; 9 × 6 ins.; pp. 26; illustrated.

A very neat presentation of the Chandler & Taylor enclosed automatic high-speed engines, simple and compound. Some novel mechanical details are illustrated.

ELECTRIC RAILWAYS.—Crocker-Wheeler Co., Ampere, N. J. Paper; 7½ × 10 ins.; pp. 12; illustrated.

An ornate pamphlet, entitled "The Power of the Intramural Railway, Louisiana Purchase Exposition." A good map of the Intramural is shown, among other things.

NERNST LAMPS.—Nernst Lamp Co., Pittsburg, Pa. Paper, 3½ × 6¼ ins.; pp. 10; illustrated.

Contains a reprinted article on "Street Lighting by Nernst Lamps in Berwyn, Ill.," which describes how a town of 3,000 is lighted by single-glower Nernst lamps, 230-volt.

GRATES.—Green Engineering Co., Western Union Bldg., Chicago, Ill. Paper; 10 × 6¾ ins.; pp. 35; illustrated.

A full illustrated description of the Green traveling chain grate is combined with a discussion of combustion and remarks and statistics on the coal of the Middle States, giving many analyses of these coals.

GAS PRODUCERS.—Baltimore Gas Machinery Co., 14 West Lexington St., Baltimore, Md. Paper; 4 × 9 ins.; pp. 12.

A suction gas producer is quite fully discussed in these pages. The cost of power with a producer-gas plant is figured out to be less than from any other fuel-using source.

LOCOMOTIVES.—Rogers Locomotive Works, Paterson, N. J. Paper, oblong; 9¼ × 6¼ ins.; pp. 18; illustrated.

The principal features of this pamphlet are the views and particulars of the four locomotives exhibited at St. Louis; which are supplemented by a review of the history of the works.

PRESSURE GAGES.—The Bristol Company, Waterbury, Conn. Paper; 9½ × 12¼ ins.; pp. 20; illustrated.

A complete catalogue of the Bristol recording gages for pressure or vacuum. All styles of chart made for these instruments are also illustrated. The gages are made for gas, air, liquids, or ammonia.

CONDENSERS.—Alberger Condenser Co., 95 Liberty St., New York. Paper, 3¾ × 6 ins.; pp. 20; illustrated.

An album of views of Alberger condensing apparatus, including pumps, cooling-towers, etc., in addition to condensers themselves. The booklet is intended for distribution at the Louisiana Purchase Exposition.

ELECTRICAL MACHINERY.—Bullock Electric Mfg. Co., Cincinnati, O. Paper, 5½ × 6¾ ins.; pp. 32; illustrated.

A very neat pamphlet has been prepared for St. Louis Exposition purposes. It shows representative products of the Bullock works, also some views in the works themselves.

DYNAMOS AND MOTORS.—Fairbanks, Morse & Co., New York. Paper, 3¼ × 6 ins.; pp. 8; illustrated.

This folder illustrates a line of direct current dynamos and motors for small lighting or power work. They are shown both separate and connected to gasoline-engines, hoists, etc.

WATER POWER.—South Bend Electric Co., South Bend, Ind. Paper; 6 × 9 ins.; pp. 50; illustrated.

In very ornate garb, an extensive argument is presented for locating factory sites in northwestern Indiana or southwestern Michigan, where several inter-connected electric water power systems supply cheap power.

TANGENTIAL WATER WHEELS.—Abner Doble Co., San Francisco, Cal. Paper; 7 × 4¾ ins.; pp. 48; illustrated.

Photographs illustrate the Doble impulse wheels and their accessories. A striking illustration is a series of ten views of a stream from a needle nozzle, from full area to one-tenth area, showing the stream perfectly solid over the full range.

DYNAMOS AND MOTORS.—C. & C. Electric Co., 143 Liberty St., New York. Paper; 7½ × 10 ins.; pp. 15; illustrated.

Describes a regular line of direct current motors and generators of the C. & C. "Standard" or Type 5. They are built in various arrangements, with vertical shaft when desired, open or enclosed, etc. Full dimension lists are given.

STEAM PUMPS.—Dean Brothers Steam Pump Works, Indianapolis, Ind. Paper; 3½ × 6 ins.; pp. 64; illustrated.

Under the title "Pony Catalogue No. 44," a comprehensive little list of steam pumps is offered in this pamphlet. There are pumps for beer, ammonia, etc., besides many styles for water service of all kinds.

BELT DRESSING.—Joseph Dixon Crucible Co., Jersey City, N. J. Paper; 3½ × 6¼ ins.; pp. 15.

The title well indicates the contents of this booklet: "Some Observations on Leather Belting, the Causes of its Slipping and the Conditions which justify the use of a Belt Dressing," referring to Dixon's Traction Belt Dressing and Leather Preservative.

HYDRAULIC MACHINERY.—H. R. Worthington, 114 Liberty St., New York. Paper, 6 × 9 ins.; pp. 4; illustrated

The Worthington Steam Accumulator is the special subject of this leaflet. It is a hydraulic accumulator in which the loading is produced by means of a steam cylinder instead of by weights.

METAL-SAWING MACHINES.—Newton Machine-Tool Works, Inc., Philadelphia, Pa. Paper, 6 × 9 ins.; pp. 28; illustrated.

The various machines in this catalogue meet all the different demands for metal-sawing, from cutting off round stock or structural steel, to slotting crank-shaft webs or cutting armor plate.

"SOMETHING PNEUMATIC" (a monthly magazine).—Chicago Pneumatic Tool Co., Fisher Building, Chicago. 6 × 9 ins.; pp. 26.

This is the third number of this magazine, which contains photographs of pneumatic tools and buildings constructed by their use. A recent judicial decision relating to the Moffet patent, No. 369,120, is given in full.

TELPHERAGE.—United Telpherage Co., 20 Broad St., New York. Paper, 6 × 9¼ ins.; pp. 12; illustrated.—Circular No. 50.

The illustrations and dimension-diagrams of various forms of telphers given in this circular form a handy reference for the man who contemplates improving his shop or plant by an automatic overhead trolley system.

PUMPS AND HYDRAULIC MACHINERY.—The Goulds Mfg. Co., Seneca Falls, N. Y. Paper; 8x7 ins.; pp. 16; illustrated.

This is a supplement to a general catalogue issued by the company in July, 1904. The first thing figured is a duplex double-acting piston vacuum pump. some triplex pumps of various sorts, and force, bilge and other hand pumps follow.

TANKS AND STEEL STACKS.—Philadelphia Iron Works, 18th St. and Pennsylvania Ave., Philadelphia, Pa. Paper; 5 × 6¾ ins.; pp. 40; illustrated.

The principal class of work illustrated in this booklet is steel smoke-stacks and stand-pipes. Other products are: Boilers, of the ordinary tubular and the internally-fired or marine varieties; air receivers, hot water generators, and open tanks.

VALVES.—Schutte & Koerting Co., 12th and Thompson Sts., Philadelphia, Pa. Paper; 5 × 8½ ins.; pp. 8; illustrated.

The Schutte valves embody several essential improvements over ordinary globe valves, which are pointed out and explained in this pamphlet by drawings and text. Balanced globe valves, check valves, etc., are variations which are also featured.

PNEUMATIC HAMMERS.—The Ingersoll-Sergeant Drill Co., New York. 3½ × 8 ins.; pp. 10.

The construction of the Haeseler "Axial Valve" hammer is well illustrated in this pamphlet, and its merits set forth. An interesting reference is made to the scope of a recent decision of the Supreme Court bearing on the patent features of pneumatic hammer handles.

WIRE ROPE.—Macomber & Whyte Rope Co., 19-21 South Canal St., Chicago, Ill. 3½ × 5¼ ins.; pp. 64.

Wire rope of all sizes and kinds is listed in this catalogue, together with wire rope accessories, such as turn buckles, hooks, thimbles, pulley blocks, etc. Interesting cuts show how to splice wire rope, and other useful information is given for the users of wire ropes.

ELECTRIC POWER PLANTS.—Arnold Electric Power Station Co., Marquette Bldg., Chicago. Paper. 9 × 12 ins.; 2 pamphlets; pp. 15 each; illustrated.

Arnold Bulletin No. 8 describes the Omaha shops of the Union Pacific R. R. Bulletin No. 9 describes the Baring Cross shops of the St. Louis, Iron Mountain & Southern Ry. The power, lighting and heating systems of these plants were designed by the Arnold Electric Power Station Co.

SHEET STEEL RADIATORS.—Kinnear-Hood Steel Co., 141 Broadway, New York. 6-page folder; 3¼ × 7 ins.; illustrated.

A sheet-steel radiator for steam heating systems is shown here. It is made of sheet iron coated inside and outside with zinc and finished in various finishes. The shape of the radiator loops is such as to give very much greater radiating surface for the same bulk than do the ordinary cast-iron radiators.

PLUMBING INSPECTION.—Metropolitan Disinfecting and Plumbing Inspection Co., Windsor Arcade, Fifth Ave. and 46th St., New York City. Paper; 6 × 4½ ins.; pp. 12; illustrated.

A portable smoke-testing apparatus, drawn by a motor vehicle, is used by this company to test plumbing. The company makes sanitary inspections of buildings and issues certificates. It also gives advice regarding water-waste prevention.

ELEVATING AND CONVEYING MACHINERY.—Williamsport Carriage & Pulley Co., Williamsport, Pa. 6 × 9 ins.; pp. 168.

Drag conveyors, apron carriers, rubber belt conveyors, spiral conveyors, bucket elevators, barrel elevators, inclined planes, and accessories, such as chains, sprockets, shafts, etc., are illustrated and described by tabular data, price-lists being given.

TANDEM COMPOUND ENGINES.—A. L. Ide & Sons, Springfield, Ill. Paper, 6¼ × 9¼ ins.; pp. 32; illustrated.

The "Ideal" is a tandem-compound horizontal engine; of the enclosed, self oiling type, and with automatic control of cut-off by a shaft governor. The construction is illustrated by sectional views, and there are the usual tables of dimensions and capacity.

PUMPING MACHINERY.—Fairbanks, Morse & Co., Chicago, Ill. 6 × 9 ins.; pp. 88.

Photographs and line cuts show in detail the designs of different pumps made by this firm, data being given of the capacities, sizes, etc., of each type. Useful information, and formulas, and tables for use in connection with pumps are given at the end of the catalogue.

WATER-WHEEL GOVERNORS.—Sturgess Governor Engineering Co., West Troy, N. Y. Paper; 6 × 9 ins.; pp. 4; illustrated.

For small water-wheels, or for any case where space is limited, a special form of the Sturgess governor has been designed, having the governor, the pump and the oil storage reservoir all in one self-contained mechanism. The above circular describes its general arrangement and gives dimension tables.

BUILDINGS.—Frank B. Gilbreth, Boston and New York. 7 × 8 ins.; pp. 30.

This catalogue illustrates a large number of buildings built by this company, which makes a specialty of rapid construction.

Another pamphlet of the same size as the one just reviewed contains numerous photographs of the new laboratory for the Massachusets Institute of Technology, which was erectel by this company 54 days ahead of contract time.

MOTOR CONTROLLERS AND RESISTANCES.—The Cutler-Hammer Mfg. Co., Milwaukee Wis. Separate sheets; 5 × 8 ins.; Serial Bulletins 52 to 93.

The appliances shown on the recently issued Cutler-Hammer bulletins include the following: Self starters for small electric drum elevators; controllers for printing presses and machine tools, in several styles; self starters and reversing switches for motor-driven pumps; and lamp dimmers, for all uses, from theaters to residences.

ROCK CRUSHER AND ROAD MACHINERY.—National Drill & Mfg. Co., Pullman Building, Chicago. Paper; 10½ × 7¾ ins.; pp. 12; illustrated.

Half of this pamphlet is devoted to a rock crusher of the jaw type, which is described and illustrated in detail, and which is shown mounted in a frame on wheels with a conveyor for handling the crushed stone. Portable screens and bins, mounted on wheels for use on road work, are also shown.

GAS PRODUCERS.—Morgan Construction Co., of Worcester, Mass. New York office, 40 Exchange Place. Paper, 6 × 9 ins.; pp. 15; illustrated.

Describes the Morgan Continuous Gas Producer for making gas especially for use in heating furnaces of all kinds: steel furnaces, roasting furnaces in ceramic, cement, or chemical industries, etc. The George automatic feeder on this furance is described as the most satisfactory feeding device yet produced.

GAS PRODUCER PLANTS.—R. D. Wood & Co., Philadelphia, Pa. Paper; 6 × 9 ins.; pp. 120; illustrated.

This book contains much technical and descriptive matter in regard to gas producers, producer gas power plants, and the application of producer gas to manufacturing purposes. The principles and practical operation of gas producers are described, and the special properties of gas fuel and producer gas are explained. The description deals mainly with the Taylor system of making gas, but the Mond gas is also included. There are also instructions for the operation of the producers and tables of the properties of gases.

ELECTRICAL MACHINERY.—Fort Wayne Electric Works, Fort Wayne, Ind. Paper, 8 × 10½ ins.; 2 of pp. 7; illustrated.—Serial Bulletins Nos. 1056 and 1057.

Type A, constant-potential transformers, for regular distribution service, directly on the poles, have their good points described in the first of the above-noted pamphlets, where are also listed their principal dimensions. The other pamphlet describes multiphase alternating-current generators, belt-driven.

CONTRACTORS' EQUIPMENT.—Commercial Railway Equipment Co., 42 Broadway, New York, N. Y. Paper, 6 × 8¾ ins.; pp. 4; illustrated.

A monthly sheet listing some of the material in stock is issued by this company. The list covers railway material, hoists, steam-shovels, and all kinds of contractors' machinery. Special folders are issued on separate machines; one such folder describing the 10 × 16 Davenport saddle-tank locomotive has just been issued.

DROP FORGINGS.—Wyman & Gordon, Worcester, Mass. Paper; 4½ × 7 ins.; pp. 16; illustrated.

As a further number in the interesting little biographical series which Wyman & Gordon have been issuing, "A Short Story of Kristofer Polhem" is presented. Polhem was a Swedish engineer of the 17th century, a self-taught genius, and his history is interesting. An inserted leaf advertises the drop forgings made by the publishers.

LOCOMOTIVES.—American Locomotive Co., New York, N. J. Paper, oblong; 9¼ × 6¼ ins.; pp. 18; illustrated.

The company's exhibit at St. Louis forms the subject of this pamphlet, which contains views and dimensions of 13 locomotives, ranging from 15 to 167 tons in weight. There are also more detailed descriptions of two of the notable engines, as well as of the company's design of piston valve, trailing trucks, etc.

WATER SOFTENING.—Kennicott Water Softener Co., Railway Exchange, Chicago. Paper; 9 × 12 ins.; pp. 16; illustrated.

This pamphlet contains a reprint of an article on water softening on the Union Pacific Ry., including 36 plants with a total capacity of 3,000,000 gallons daily. A tabular summary shows the grains of solids in the water at the various stations before and after treatment, together with the cost of treatment.

LUBRICATING GREASES.—Joseph Dixon Crucible Co., Jersey City, N. J. Paper, 3½ × 6¼ ins.; 2 pamphlets; 12 pp.

Both pamphlets above noted discuss the value of semi-solid lubricating compounds. The suitability of flake graphite for grease lubrication is especially emphasized. Dixon's greases are talked about somewhat in detail. A separate booklet, 5 × 7½, of 26 pp., discusses the subject in more complete form, under the title "Oil versus Grease."

SHEET PILING.—H. Wittekind Interlocking Sheet Piling Co., 28 E. Jackson Boulevard, Chicago, Ill. Paper, 4½ × 6½ ins.; pp. 11; illustrated.

This pamphlet shows designs of wooden and steel interlocking sheet piling. The wooden piles are built up of planks and strips, while the steel piles are composed of plates and shapes. It is claimed that a single line of the wood piling will be as efficient as the ordinary arrangement of a double line of sheeting with clay filling between the lines.

DYNAMOS AND MOTORS.—The Bullock Electric Mfg. Co., Cincinnati, O. Paper; 6 × 9 ins.; pp. 19; illustrated.

Bullock motors and generators for belt driving are called Type H or H I. Description and dimension tables covering these machines are contained in Bulletin No. 1026.

The August calendar of the Bullock Electric Mfg. Co. carries the portrait of Professor M. I. Pupin, and gives on the back a good little sketch of his life.

TURBINE PUMPS.—De Laval Steam Turbine Co., 74 Cortlandt St., New York, N. Y. Paper; 6 × 9 ins.; pp. 24; illustrated.

Reports a series of tests on rotary pumps of the reversed turbine type, conducted by Professors J. E. Denton and William Kent. The pumps tested vary in delivery head from 45 ft. to 700 ft., and in discharge from 250 gals. to 1,700 gals. per minute, the high-pressure pump being two-stage. Efficiencies between 70 and 80% were realized.

LOCOMOTIVES.—Baldwin Locomotive Works, Philadelphia, Pa. Paper; 9 × 6 ins.; pp. 75; illustrated.

No. 47 of the "Record of Recent Construction" describes the Baldwin exhibit in the Transportation Bldg. of the Louisiana Purchase Exposition, with copious illustration. Prefixed to this, however, is a brief history of the Baldwin Works, with illustrations and descriptions of the successive thousandth locomotives (at present the record of locomotives built is over 24,000, and they are being turned out at the rate of over six per working day).

ELECTRIC MACHINERY.—Bullock Electric Mfg. Co., Cincinnati, O. Paper, 6 × 9 ins.; illustrated.—Serial Bulletins 1002A, 1026, 1028, 1029 and 1030.

The subjects of the various bulletins noted are: Direct-current multipolar motors, open or enclosed, known as Type N, and intended for general power service; direct-current multipolar motors and dynamos for belt-driving, mounted on a cast-iron base-plate (Types H and H I); multiple-voltage speed control, for machine driving by electric motors; engine-type (direct-connected) dynamos for direct current, for either lighting or railway service; and alternating-current transformers, built either self-cooled or water-cooled (with oil insulation).

ENGINEERING AND BUILDING OF MANUFACTURING PLANTS.—Wellman-Seaver-Morgan Co., Cleveland, O. Paper, 4 × 9¼ ins.; pp. 35; illustrated.

"What We Do" is the title of this pamphlet, which contains very many pictures of "what we have done." It is not the place here to list the many classes of work done by the company, as the list occupies several pages of the pamphlet. The main part of the ground covered is plants for handling bulk material, such as coal, ore, etc., and machinery for rolling-mills and other metallurgical works.

GRAPHITE ARTICLES.—International Acheson Graphite Co., Niagara Falls, N. Y. Paper, 6 × 9 ins.; pp. 12; illustrated.

Acheson (electric furnace) graphite may be machined by the user to any desired shape, more cheaply even than metals. This fact makes this material of peculiar value in many cases, even where its high electrical conductivity compared with amorphous carbon is not a primary object. Several examples are described in this catalogue. The widest use for Acheson graphite is, of course, for electrodes in electro-chemical operations; but also melting crucibles, stirring rods, bushings, etc., are profitably made of this graphite.

MULTIPLE-VOLTAGE ELECTRIC DRIVING.—Bullock Electric Mfg. Co., Cincinnati, O. Paper; 6 × 9 ins.; pp. 24; illustrated. Bulletin No. 1028.

The Bullock multiple-voltage speed control for motors driving machine tools accomplishes its results in a very simple manner, as is well shown by the explanation and drawings given in this bulletin. With the "three-wire" Bullock system 12 speeds are obtained, successively 20% higher. The "four-wire" system gives 26 forward speeds, each 7% higher than the preceding; the total speed range is 7½ to 1.

ROTARY PUMPS.—The Lawrence Machine Co., Lawrence, Mass. Paper, 9 × 6 ins.; pp. 55; illustrated.

The user of centrifugal or turbine pumps will find a large line of such machines illustrated here by many views and drawings. The necessary text-information and dimension tables are also given, in some cases with prices. The machines included are: simple centrifugal pumps, in various arrangements, engine-pump sets, motor-pump sets, and turbine pumps. Accessories such as ejectors, for priming the pumps, are also shown.

METAL-WORKING MACHINE TOOLS.—Garvin Machine Co., New York, N. Y. Paper; 4 × 6¼ ins.; pp. 27; illustrated.

A very thorough pocket catalogue of the Garvin products. All machines are shown by illustrations, described by a brief text, and most of them have their principal dimensions and specifications listed in tabular form. The tools shown cover practically the whole range of machine tools: drills, lathes, millers, shapers, planers, etc.; also punch presses, shears, etc., and the great range of small tools and accessory machines.

TANK CARS, TRUCKS AND BOLSTERS.—Bettendorf Axle Co., Davenport, Ia. Paper, oblong; 9 × 6 ins.; pp. 50; illustrated.

A number of railway equipment specialties are included in this pamphlet. Truck frames of the arch bar type, but made in a single casting (including the journal boxes) are shown by views and line drawings, and there are similar frames for tender trucks, with a spring box cost on the top of the journal box. Different designs of steel body and truck bolsters are shown, with records of loading and drop tests. Tank cars with steel underframes are described, and also a tank car in which the tank itself forms its own underframe, having the draft castings and the body bolsters riveted to it. An experimental steel car of 15-tons capacity, now being used in the Chicago tunnels, is also illustrated.

ELECTRICAL MACHINERY (Serial Bulletins).—General Electric Co., Schenectady, N. Y. Paper; 8 × 10½ ins.; illustrated.

These pamphlets are of the usual form and equipment, perforated for binding in a "General Electric" binder. The subjects of the various bulletins are: The Sprague-General Electric Type M control, which is the well-known electric multiple unit control for electric trains; a voltage regulator for direct current generators, which automatically varies the field current to suit the load; street lighting by series direct current enclosed arc lamps, wherein many detail parts of such lighting systems are illustrated; Thomson high torque induction meters, 1904 style; pocket-size voltmeters and ammeters, of the inclined coil style; small special transformers for testing cables; sewing machine motors, for direct or alternating current; and, lastly, oil switches.

WATER-WORKS AND SEWERS.

Emporia, Va., Sept. 6, 1904.

Sealed proposals will be received until 6 p. m., Thursday, Sept. 29, 1904, for the construction of Water-Works and Sewerage System for the Town of Emporia, Va.

About 21,800 ft. of 8", 6" and 4" cast-iron pipe and specials, tank and tower, 50 fire hydrants, valves and boxes, triplex pump, gasoline engine, power house and pool, digging and back filling.

About 17,227 ft. of 6", 8", 10", 12" and 15" salt grazed terra cotta pipe.

300 "Y" branches.

24 ft. 15" cast-iron pipe, 14 manholes, 11 automatic flush tanks, 24 lampholes, 6 hose flush openings.

Send sealed proposals to J. R. Grizzard, Town Clerk. Mark on outside "Proposals."

Plans can be seen at the office of Engineer or at the Clerk's office. Specifications sent on application. Town Council reserves the right to reject any or all bids.

CHAS. S. YORK,
Consulting Engineer,
10-3t 1526 East Biddle St., Baltimore, Md.

U. S. ENGINEER OFFICE, Wilmington, N. C., Sept. 6, 1904.—Sealed proposals, in duplicate, will be received here until 12 o'clock noon on October 6th, 1904, for boiler for U. S. Suction Dredge "Cape Fear." Specifications and forms for bidding will be furnished on application. R. P. JOHNSTON, Captain, Corps of Engineers, U. S. A. 10-4t

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PROPOSALS FOR CORLISS ENGINES.—West Point, N. Y., September 7, 1904.—Sealed proposals, in triplicate, will be received until 12 o'clock noon, October 6, 1904, for the construction and installation of Corliss Engines for electric lighting as per drawings and specifications in this office. U. S. reserves the right to accept or reject any or all proposals or any part thereof. Forms and specifications furnished upon application. Address QUARTERMASTER, U. S. M. A. 10-4t

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PIPE, VALVES, CASTINGS, SEWERS, ETC.

Kiel, Wis.

Bids are asked until 8 p. m., Sept. 27, 1904, for 12,000 ft. of 4, 6 and 8-in. water mains, hydrants, valves and specials, and 4,000 ft. 10-in. sewers, manholes, etc.

W. G. KIRCHOFFER, Engr.,
10-1t Baraboo, Wis.

EXTENSION AND FILTRATION OF WATER SUPPLY SYSTEM.

Wilmington, Del., Sept. 3, 1904.

Sealed proposals addressed to the Board of Water Commissioners, Wilmington, Del., and endorsed "Proposals for Building the Filtration Plant and the Extension of the Water Supply System," will be received at the office of the Water Department, S. E. corner of Sixth and King Streets, Wilmington, Del., until 12 o'clock noon on Monday, the twenty-sixth day of September, 1904, and will be publicly opened and read at 1.30 p. m. on the same day.

The entire work will be subdivided into seven contracts, as follows:

Contract No. 1. Sedimentation Basin, 21,-000,000 gallons capacity; Six Filter Beds, about five acres, and Pumping Station.

Contract No. 2. 2,200 feet of 72-inch Concrete Conduit; 9,300 feet of 66-inch Concrete Conduit; 4,950 feet of 66-inch Conduit in Tunnel; 4,370 feet of 48-inch Iron or Steel Pipe; Intake Crib and Gate House.

Contract No. 3. Two 16,000,000 gallons Centrifugal Pumps and Engines; Two 200-HP. Boilers and all other machinery.

Contract No. 4. Supplying about 2,500 tons of Cast-Iron Pipe and Specials, and Alternative bid for 3,800 feet of 49-inch riveted Steel Pipe.

Contract No. 5. Supplying 88 Gate Valves, Sluice Gates and Special Valves from 6 inches to 48 inches.

Contract No. 6. 10,000,000 gallons Clear Water Reservoir.

Contract No. 7. One Custodis Stack 125 feet high.

Each of the several proposals must be accompanied by a certified check of the following amounts:

Contract No. 1	$6,000
Contract No. 2	6,000
Contract No. 3	2,000
Contract No. 4	2,000
Contract No. 5	1,000
Contract No. 6	3,000
Contract No. 7	500

Said checks are to be drawn payable to the Water Department as surety that if the proposal be accepted a contract will be entered into.

The blank forms of proposals supplied by this Department shall be used in making out bids.

Plans and specifications may be seen and forms of proposals and contracts may be obtained at the office of the Water Department, S. E. corner Sixth and King Streets, Wilmington, Del. Copies of the specifications and plans may be obtained upon making a deposit of $50, said deposit to be returned upon the return of the plans and specifications.

The Board of Water Commissioners reserves the right to reject any or all bids should it deem it to be for the best interest of the City of Wilmington to do so.

THEODORE A. LEISEN,
10-2t Chief Engineer.

U. S. ENGINEER OFFICE, New London, Conn., Sept. 6, 1904.—Sealed proposals in triplicate for repairing jetties at mouth of Connecticut river, Conn., will be received here until 12 o'clock noon, Sept. 27, 1904, and then publicly opened. Information furnished on application. C. F. POWELL, Lt.-Col., Engrs. 10-3t

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TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C. September 5, 1904.—Sealed proposals will be received at this office until 3 o'clock p. m. on the 7th day of November, 1904, and then opened, for a mechanical ventilating apparatus and changes in connection therewith for the U. S. Treasury Building, Washington, D. C., in accordance with the plans and specification therefor, copies of which may be obtained at this office, at the discretion of the Supervising Architect, upon the deposit of a certified check for one hundred ($100) dollars, payable to the order of the Treasurer of the United States, which will be held until the return of the drawings and specification and then return to sender, or in the event drawings and specification are not returned within a reasonable time check will be collected and proceeds deposited to credit of the United States. JAMES KNOX TAYLOR Supervising Architect. 10-2t

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OFFICE OF THE COMMISSIONERS, D. C., Washington, D. C., Aug. 15, 1904.—Sealed proposals will be received at this office until 12 o'clock M., September 12, 1904, for constructing a portion of the Sewage Disposal System, 4½ Street High Level Intercepting Sewer in the District of Columbia. Specifications and blank forms of proposal may be obtained at this office. The right is reserved to reject any and all bids or parts of bids. HENRY B. F. MACFARLAND, Jay J. Morrow (Acting), Commissioners, D. C. 8-3t

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PROPOSALS FOR ELECTRICAL GENERATORS AND SWITCHBOARD.—West Point, N. Y., September 7, 1904.—Sealed proposals, in triplicate, will be received until 12 o'clock noon, October 6, 1904, for the construction and installation of Generators, Motor Generators and Switchboard as per drawings and specifications in this office. U. S. reserves the right to accept or reject any or all proposals or any part thereof. Forms and specifications furnished upon application. Address QUARTERMASTER, U. S. M. A. 10-4t

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By C. W. REINHARDT. Price, $1.00
By Prof. H. S. JACOBY. Price, $5.0

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